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MADISON COLLEGE

DIALOGUE ISSUE
ANNOUNCEMENTS

1968-69
1969-70



Madison College

Volume XXVII, No. 4

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April, 1969

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MADISON COLLEGE

CATALOGUE ISSUE 1968-69

ANNOUNCEMENTS 1969-70

"The diffusion of knowledge is the only guardian of true liberty."

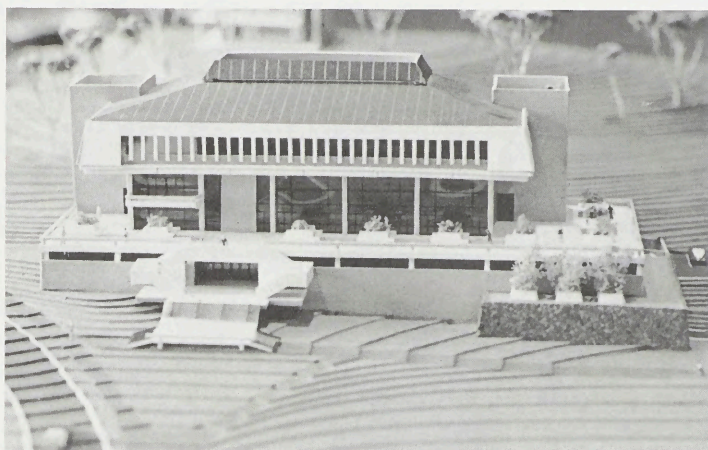
James Madison

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Madison College is accredited by: Southern Association of Colleges and Schools, National Council for Accreditation of Teacher Education for Preparation of Elementary Teachers and Secondary Teachers with the Master's Degree as the Highest Degree Offered, Virginia State Board of Education.

It is a member of: Association of American Colleges, Association of Virginia Colleges, American Association of Colleges for Teacher Education, American Council on Education, National Commission on Accrediting, American Association of State Colleges and Universities,

and a corporate member of: American Association of University Women.



NEW STUDENT ACTIVITIES CENTER

TABLE OF CONTENTS

	<i>Page</i>
ACADEMIC CALENDAR	4
ADMINISTRATION AND FACULTY.....	7
THE COLLEGE	31
Student Life	40
ACADEMIC INFORMATION	53
DIVISION OF THE HUMANITIES.....	77
Art	79
English	87
Foreign Languages	97
Music	111
Speech and Drama.....	124
DIVISION OF THE NATURAL SCIENCES.....	129
Biology	138
Chemistry	145
Geology	151
Mathematics	155
Physical and Health Education.....	162
Physics	173
DIVISION OF THE SOCIAL SCIENCES.....	178
Business Education	180
History	189
Home Economics	197
Library Science	209
Social Science	213
DIVISION OF TEACHER EDUCATION.....	243
Education	245
Psychology	261
EXPENSES AND FINANCIAL AID.....	267
INDEX	290

1969

SEPTEMBER

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September 13—Dormitories open.

September 15—Registration of transfer and re-admitted students.

September 16—Adjustments of programs of spring registrants; completion of registration of upper-classmen (required of old students). Students who do not complete registration on this date will be fined \$5.00.

September 17—Registration of freshmen.

September 17—Junior English Proficiency Test; 8:00 A.M.

September 18—Beginning of classes: 8:00 A.M.

September 25—Last day on which class changes in schedules of new students may be made without payment of \$5.00 fine.

September 25—First semester convocation.

September 27—Institute on Education.

October 25—Graduate Record Examination.

November 7—Block courses end first eight weeks.

November 10—Classes begin second eight weeks.

November 13—Mid-semester grades for freshmen.

November 26—Thanksgiving vacation begins: 11:50 A.M.

December 1—Thanksgiving vacation ends and classes begin: 8:00 A.M.

December 13—Graduate Record Examination.

December 20—Christmas vacation begins: 11:50 A.M.

January 5—Christmas vacation ends and classes begin: 8:00 A.M.

January 17—Classes end first semester: 8:00 A.M.

January 17—Graduate Record Examination.

January 19—Reading Day.

January 20, 8:00 A.M.—January 29 — Examination period.

January 29—First semester ends.

February 4—Second semester registration of new students and course adjustments for old students. Students who make class adjustments subsequent to this time will be subject to a fee of \$5.00.

1970

MARCH

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AUGUST

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February 4—Junior English Proficiency Test.
1:00 P.M.

February 5—Second semester classes begin at
8:00 A.M.

February 12—Second semester convocation.

March 14—Founders Day.

March 20-21—Parents Day.

March 21—Spring vacation begins: 11:50 A.M.

April 1—Spring vacation ends and classes begin:
8:00 A.M.

April 3—Block courses end third eight weeks.

April 6—Classes begin fourth eight weeks.

April 7—Mid-semester grades for freshmen.

April 17-26—Arts Festival.

April 25—Graduate Record Examination.

April 30—Spring Registration.

May 2—May Day and Homecoming.

May 7—Honors Day.

May 26—Classes end second semester: 8:00 A.M.

May 26—Reading Day.

May 27, 8:00 A.M.—June 5, 12:00 Noon—Ex-
amination period.

June 7—Baccalaureate Service: 11:00 A.M.

June 7—Commencement: 2:15 P.M.

June 10—Intersession registration.

June 17—Summer Session registration.

June 18—Summer Session classes begin at 7:15
A.M.

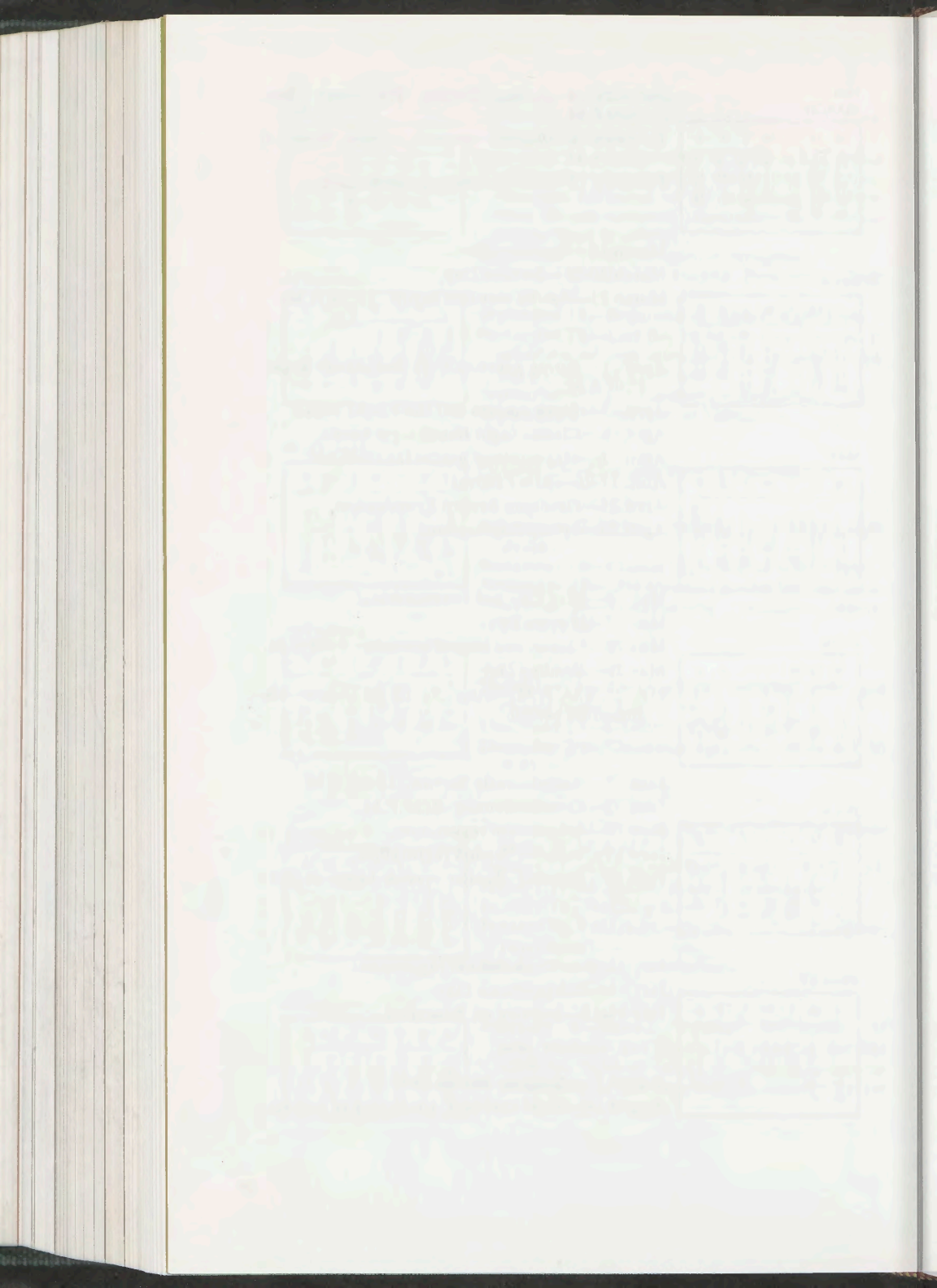
July 1—Six-Week Session registration.

July 4—Independence Day.

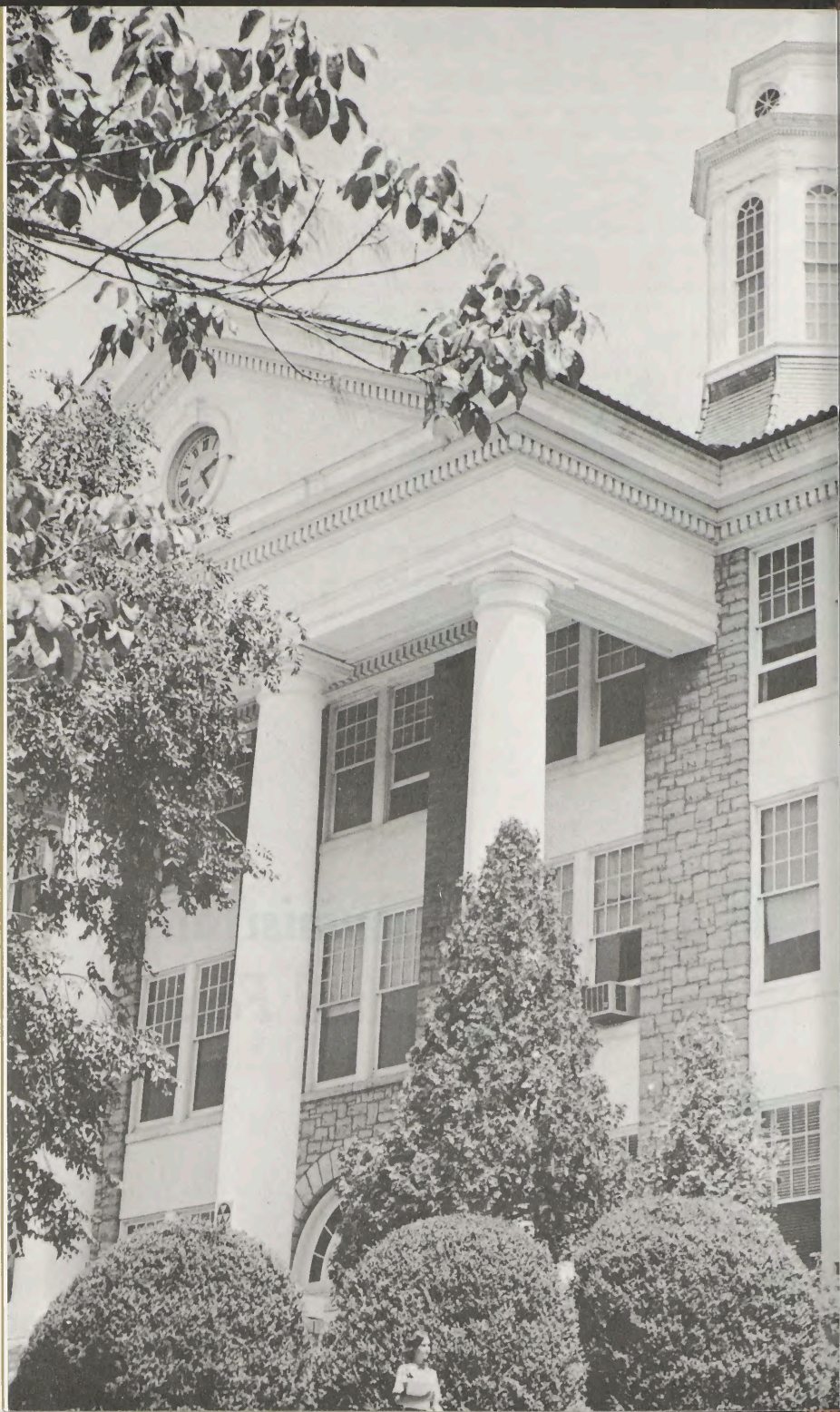
July 14-15—Institute on Education.

August 13—Summer Session ends.

August 14—Final exercises, conferring of degrees.



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and Faculty*



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B.S., Juniata College; M.S., Pennsylvania State University.
- WALTER HEEB, JR. *Assistant Professor of Education*
B.S., M.A., East Tennessee State University.
- PETER L. HELLER *Assistant Professor of Social Science*
A.B., Indiana Central College; M.A., The Pennsylvania State University.
- CARY S. HENDERSON *Associate Professor of History*
B.A., M.A., University of Florida; Ph.D., Duke University.
- GEORGE R. HICKS *Associate Professor of Music*
A.B., B.M., Albion College; A.M., Harvard University; virtuoso's diploma in organ under Marcel Dupre, Conservatoire American, Fontainebleau, France; "Mozarteum," Salzburg, Austria.
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Supervisor of Student Teaching*
B.S., M.A. in Ed., Madison College.
- THERESA M. HOLLINGSWORTH *Instructor of Music*
B.M., M.M., University of Tulsa; Diploma in Flute under Robert Heriche, Paris American Academy of Music, Paris, France.
- JANET HOPKINS *Assistant Professor of Education; Field
Supervisor of Student Teaching*
B.S. in Ed., Madison College; M.Ed., University of Virginia.
- MARGARET F. HORN *Assistant Professor of Physical and
Health Education*
B.A., Bridgewater College; M.S. in Ed., Madison College.

- ROBERT H. HORN *Director of Student Teaching;
Assistant Professor of Education*
B.A., Bridgewater College; M.Ed., University of Virginia.
- PHILLIP G. HUNTSINGER *Assistant Professor of Health Education*
B.S., Friends University; M.S., Colorado State College.
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Sciences; Head, Department of Mathematics;
Professor of Mathematics*
A.B., Bridgewater College; M.A., Ph.D., Cornell University.
- KATHERINE M. IKENBERRY *Assistant Professor of English*
B.A., Bridgewater College; M.A. in Ed., Madison College.
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A.B., Wilson College; M.M., Eastman School of Music; M.M., University of Michigan; L.R.A.M., Piano Performance, Royal Academy of Music, London, England; International Summer Academy, Salzburg, Austria.
- MARY A. JACKSON *Professor of History*
B.S. in Ed., Madison College; M.S., Ph.D., University of Virginia.
- BETTY FAITH JAYNES *Instructor of Physical and Health Education*
B.S., Woman's College of Georgia; M.S., University of North Carolina at Greensboro.
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B.A., Phillips University; M.S., Catholic University of America; Ph.D., University of Oklahoma.
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B.A., Davis and Elkins College; M.S. in Ed., Madison College; Ed.D., University of Virginia.
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B.A., Kent State University; M.A., Miami University, Ohio.
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Field Supervisor of Student Teaching*
B.S., M.S., State University College at Oswego, New York.
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M.A., University of Hamburg (Germany).
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B.S., New York University; M.Ed., University of Virginia.
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B.S. in Ed., The Ohio State University; M.S., Florida State University.
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B.A., Eastern Mennonite College; M.S. in L.S., Drexel Institute of Technology.

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B.A., Bridgewater College; M.Ed., University of Virginia.
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B.S., M.S. in Ed., Madison College; M.A., University of Illinois.
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B.S., Madison College; M.Ed., The Pennsylvania State University; Ed.D., University of Virginia.
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B.A., Hampden-Sydney College; M.A., University of Michigan.
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B.M., The Philadelphia Conservatory of Music; M.M., The College-Conservatory of Music of Cincinnati; Certificate in Piano, The Niedersächsische Hochschule, Hanover, Germany; Pupil of Hans Barth, Karl Engel, and Olga Canus.
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Professor of Home Economics*
B.S., Madison College; M.S., Ph.D., The Ohio State University.
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B.M., Eastman School of Music, University of Rochester; M.M. in Mus.
Ed., University of South Dakota; Ph.D., Catholic University of America.
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A.B., Bridgewater College; B.S. in L.S., Columbia University.
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Supervisor of Student Teaching*
B.A., Wittenburg College; M.S., University of Tennessee.
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B.S. in Ed., Madison College; M.S., Louisiana State University.

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B.S.A., M.S., Ph.D., Purdue University.
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B.M., University of Wyoming; A.M., New York University.
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Professor of Sociology*
B.S., Florida Southern College; M.A., Western Reserve University;
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B.A., Lynchburg College; M.Ed., University of Virginia.
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B.S., Radford College; M.A., University of Tennessee.
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B.A., Westhampton College; A.M., Radcliffe College.
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B.A., College of the Pacific; M.A., Columbia University.
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B.S., Richmond Professional Institute of the College of William and Mary; R.N., Stuart Circle School of Nursing.
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B.S., West Virginia University; M.A. in Ed., Madison College.
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B.F.A., Wayne State University; M.A., University of Iowa.
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B.S., M.S., North Carolina State University.
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B.M., M.M., University of Michigan School of Music; Studied organ at the Academy of Music in Vienna and at St. Cecilia Conservatory in Rome.
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A.B., Winthrop College; A.M., Ed.D., Columbia University.
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B.S., Delaware Valley College of Science and Agriculture; M.S., Ph.D., Lehigh University.
- ROSALIND TRENT *Assistant Professor of English*
A.B., Woman's College of the University of North Carolina; M.A., Duke University.
- FRANCIS E. TURNER *Assistant Director of Admissions
and Student Aid; Assistant Professor of Education*
B.M.Ed., Madison College; M.Ed., University of Virginia.

- LINDA CAROL TWYMAN *Instructor of Mathematics*
B.S., Georgetown College; M.A. in Ed., Western Kentucky University.
- MILEY W. TWYMAN *Instructor of Mathematics*
B.S., Western Kentucky University; M.A.T., University of North Carolina.
- MARY JUNE WALL *Assistant Professor of Political Science*
B.A., B.S., Radford College; M.A., The Johns Hopkins University.
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B.S., Southwest Missouri State College; M.S., Kansas State Teachers College.
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B.S., State College, West Chester, Pennsylvania; M.A., Columbia University.
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A.B., Colgate University; M.A., Ed.D., Columbia University.
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B.A., Bridgewater College; M.S. in Social Work, Richmond Professional Institute of the College of William and Mary.
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B.A., M.F.A., Florida State University.
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A.B., M.Ed., College of William and Mary; M.A., University of Richmond.
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B.S. in Ed., Richmond Professional Institute of The College of William and Mary; M.S. in Ed., Madison College.
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B.S., Moravian College; M.S., University of Kansas.

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B.S., M.Ed., Wayne State University; Ed.D., University of Maryland.

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*Librarian; Assistant Professor
of Library Science*

B.S. in Ed., State University College at Geneseo, New York; M.S. in
L.S., Syracuse University.

RUTH COOPER

Assistant Professor, Supervisor of Second Grade

B.S., Radford College; M.A., George Peabody College for Teachers.

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B.S., Ithaca College; A.M., Columbia University.

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B.S., Mary Washington College; M.A., New York University.

³KATHARINE SIEG

Assistant Professor, Supervisor of English

B.A., Lenoir-Rhyne College; M.A., University of Virginia.

¹On Educational Leave, 1968-69.

²On Part Time Basis.

³These high school teachers also serve as supervisors of student teaching and are granted faculty status by the College.

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DR. CALDWELL, *Chairman*, MR. BEER, DR. DARRIN, MR. GRIFFIN, DR. R. POINDEXTER, MRS. REEKE, DR. REUBUSH, MR. SANDERS, MR. SONNER, DR. WELLS, MRS. WILSON, and a representative from the Music Department.

JAMES MADISON COMMITTEE

DR. MCFARLAND, *Chairman*, MR. BROWN, DR. CLINE, MR. HALLMAN, MR. MANDEVILLE, DR. MOULTON, DR. E. SMITH, MR. WHITE.

JUDICIARY COMMITTEE

President of the College, *Chairman* (without vote), the Administrative Council, Dean of Women, Dean of Men, Secretary of the Faculty, a faculty adviser for Student Government (DR. CALDWELL or DR. THEODORE), a faculty adviser for the Honor Council (DR. DINGLEDINE), DR. ROWE, and one of the following: DR. BRUCE, MRS. HAMMES, DR. MARSHALL.

LIBRARY

DR. McMURRAY, *Chairman*, MISS ALDRICH, MISS BURKE, DR. CURTIS, DR. G. FISHER, MR. GOFF, MR. GORDON, DR. JACKSON, DR. JENKINS, DR. MCFARLAND, DR. MAHLER, MRS. MASON, MR. PALMER, DR. E. SMITH, DR. WOOD.

RESEARCH AND OTHER STUDIES

DR. MUNDY, *Chairman*, MR. BROWN, DR. CLINE, DR. CURTIS, DR. J. DAVIS, DR. HANSON, DR. LIPTON, DR. MCFARLAND, DR. MACE, MR. PERLMAN, DR. SHAW, MISS M. SIEG, MRS. SILVER, DR. SIMMONS, DR. TRELAWNY.

STUDENT-FACULTY RELATIONS

DR. MORRISON, *Chairman*, Dean of Men, Dean of Women, the Secretary of the Faculty, DR. CALLAHAN, MRS. COFFMAN, MRS. J. DRIVER, MR. HARNESBERGER, DR. JONES, MISS SPRESSER, MRS. WILKINS, two student representatives from each class, the Presidents of the Women's and the Men's Student Government Associations, and the Standards Committee Chairman, as voting members; the editor of the *Student Handbook* shall be an *ex officio*, non-voting member.

VISITING SCHOLARS

DR. LOCKE, *Chairman*, DR. ADAMS, MR. BEER, DR. CHAPPELL, DR. J. FOX, MR. GOFF, DR. IKENBERRY, DR. ROWE, MISS SCHNEIDER, MR. STEWART, MRS. WILKINS, DR. WOOD.

Madison Representatives for University Center Committees

Board of Directors—DR. G. TYLER MILLER, President of the College.

Projects Committee—DR. DANIEL R. HALL, Dean of the College; Professor of Economics.

Research Council—DR. JOHN P. MUNDY, Professor and Head of the Psychology Department.

Visiting Scholars Committee—DR. LOUIS G. LOCKE, Director of the Division of the Humanities; Professor of English.

Musical Program Committee—DR. GORDON L. OHLSSON, Professor and Head of the Music Department.

Library Affairs—MR. FORREST C. PALMER, Librarian; Professor and Head of the Library Science Department.

Public Relations—MR. RICHARD C. MANDEVILLE, Director of Public Relations.

Asian Studies Committee—DR. JOHN E. WOOD, Associate Professor of History.

Committee on Artmobile—MR. J. DAVID DILLER, Associate Professor and Head of the Art Department.

Representative for Center Publications—MISS ALICE E. LIGGETT, Secretary to the President.

The College



INTRODUCTION

to Madison College

Purpose

Madison College is a State-aided general college of arts and sciences operated under the supervision, management, and government of the Board of Visitors.

Madison College is dedicated to the education of students for the responsibilities of life and leadership in society. It fulfills the functions of a liberal arts institution, while continuing its major function of preparing teachers for the Virginia public schools by offering courses in the liberal arts and in specialized fields of education. The degrees which Madison is authorized to confer are: Bachelor of Arts, Bachelor of Science, Bachelor of Music Education, Master of Arts in Education, Master of Science in Education, Master of Arts, and Master of Science.

History

Madison College was established as the Normal and Industrial School for Women at Harrisonburg by act of the General Assembly on March 14, 1908. Julian Ashby Burruss was appointed the first president. The College opened its doors to its first student body in 1909 with an enrollment of 209 students and a faculty of fifteen. Its first twenty graduates received diplomas in 1911.

In 1914 the name of the College was officially changed to The State Normal School for Women at Harrisonburg. Authorization to award the Bachelor of Science degree was granted in 1916, and the first degrees were awarded to nine students in 1919. During this period a campus plan was established and six buildings were constructed: Maury, Harrison, "Hillcrest" (the President's home), and Jackson, Ashby, and Spotswood dormitories. By this time 4500 students had attended the College.

Dr. Samuel Page Duke became the second president of the College in 1919 upon the resignation of Dr. Burruss, who became President of Virginia Polytechnic Institute.

The College became the State Teachers College at Harrisonburg in 1924 and continued under this name until 1938, when it was named Madison College in honor of the fourth president of the United States. During this period the College was authorized to confer the Bachelor of Arts and Bachelor of Science degrees in liberal arts.

During this period (1919-1944) nine major buildings were constructed: Alumnae, Keezell, Wilson, Varner Home Management House, Library, and Sheldon, Johnston, Converse, and Cleveland dormitories. Dr. Duke retired in 1949. In 1946 men were first enrolled as regular day students.

G. Tyler Miller became the third president of the College on September 1, 1949. In 1950, the year following his inauguration, he initiated studies which resulted in major curriculum changes, thereby improving the program for preparation of elementary teachers and establishing required basic studies in liberal arts for all students. In 1954, the College was authorized to grant Master of Arts and Master of Science in Education degrees and in 1960 was authorized to grant the Master of Science degree. In 1966, the College was authorized to grant the Master of Arts degree. In an academic reorganization in 1954, the College was organized into four divisions.

During the period from 1949 to 1968, the campus was enlarged by 240 acres and sixteen buildings constructed. These were: Burruss Science Hall and additions; Anthony-Seeger Campus School; Walter Reed Infirmary; Moody Hall for home economics; Shops-Storage Laundry Building; Logan, Gifford, Wayland, Hoffman, Herbert Huffman, Frederikson, Hanson, Chappelear and Shorts dormitories; the sports activities building, the Gibbons Dining Hall, and the Duke Fine Arts Center. The buildings are part of a capital outlay expansion plan which has been increased and projected through 1977 to provide for a future total enrollment of 6,500 students.

Through 1967, 12,027 Bachelor's degrees were awarded and a total of 36,003 students attended the College with 371 of these earning their Master's degrees. The remainder of this total figure includes students in evening school, summer school and special students.

Madison College was authorized by the 1966 Virginia Legislature to become a co-educational institution. The College has been admitting men students since the end of World War II in 1946 but they could only register as day students. A men's dormitory, Shorts Hall, is now occupied, and four more high-rise dormitories may be constructed.

All of the degrees at Madison College, both undergraduate and graduate, are open to men students. It is expected that more men students will prepare for teaching on the elementary and secondary levels because of the shortages which prevail in these areas.

Location

The setting for Madison College is the scenic and historic Shenandoah Valley of Virginia. Located in Harrisonburg, an attractive city with a population of 16,000 people, the campus affords a view of the Blue Ridge Mountains to the East, beyond the Massanutten Range, and the Alleghenies to the West.

Harrisonburg is at the intersection of two national highways: U. S. Highway 33, the Spotswood, or Blue and Gray Trail, which runs across the country from east to west; and U. S. Highway 11, and Interstate Highway 81, the Lee Highway, which runs from north to south.

The Chesapeake and Ohio Railway provides passenger train connections to Harrisonburg at Staunton. The Greyhound Bus Lines has a terminal in Harrisonburg; and at vacation periods, the company supplies special buses

for students to all parts of the State. The Piedmont Airlines provides further service at the Shenandoah Valley Airport at Weyer's Cave, which is twenty minutes away from the campus.

Organization

The general responsibility for the administration of the College has been assigned to the President who is appointed by the Board of Visitors. The Board has an Executive Committee which consists of three Visitors and the Rector, as an *ex officio* member. It may exercise the power and transact the business of the Board of Visitors in recess, except for election of officers of the Board, dismissal, removal or changes of members of teaching staff, and final actions on questions affecting major changes in the policy of the College.

To assist the President in the administration of the College, the Board has established the offices of Dean of the College, Assistant Dean of the College, Dean of Student Services, Dean of Women, Dean of Men, Director of Admissions and Student Aid, Business Manager, Treasurer and Assistant Business Manager, Director of Field Services and Placement, Registrar, Executive Assistant to the President and Director of Public Relations as important administrative positions. Appointments to these positions, to other administrative offices, and to the faculty and staff of the College are made by the Board upon the recommendation of the President.

Within the framework of legal enactments and regulations and policies established by the Board of Visitors, the instructional program of the College is determined by the faculty, with the President of the College, as faculty chairman, and a secretary elected from its own body.

The faculty of the College is organized in four divisions: Teacher Education, Humanities, Natural Sciences, and Social Sciences. The various departments of the College are included in the divisions according to their academic affinities. The directors of the divisions, the department heads, and the individual faculty members are directly responsible to the Dean of the College in all matters pertaining to instruction.

The divisional organization is as follows:

1. The Division of the Humanities, which includes the Departments of Art, English, Foreign Languages, Music, and Speech and Drama.
2. The Division of the Natural Sciences, which includes the Departments of Biology, Chemistry, Geology, Mathematics, Physics, and Physical and Health Education.
3. The Division of the Social Sciences, which includes the Departments of Business Education, History, Home Economics, Library Science, and Social Science.
4. The Division of Teacher Education, which includes the Departments of Education and Psychology, the supervisors responsible for laboratory experiences for student teachers along with the Child Guidance

and Reading Centers and the Reading and Speech Clinics, and the Anthony-Seeger Campus School faculty.

Campus and Buildings

The Madison College campus, facing on Main Street, extends in an eastwardly direction over 300 acres. The College also owns most of the property, including residences, on the western side of Main Street along with the Anthony-Seeger Campus School.

The buildings on main campus are built of native blue limestone. The original site plan of the College has been modified periodically with expansion of facilities necessary for increased enrollment.

The eastern part of the campus has four new dormitories for women now occupied, with two more under construction. These are part of a future nine-dormitory complex for women students. The men's dormitory complex will be near the lake area on the opposite end of this part of campus where a second dormitory, an eight-story high-rise, is under construction.

Residence Halls are Jackson, Spotswood, Ashby, Sheldon, Cleveland, Johnston, Converse, Logan, Gifford, Wayland, Hoffman, Herbert Huffman, Frederikson, Chappelar, Hanson, and Shorts. Most of these buildings have laundry and pressing room facilities and kitchenettes. The increase in enrollment at the College has made it necessary to assign more than two students per room in some of the dormitories. New dormitories are being built on a continuing basis and will alleviate crowded room conditions in the near future. Total normal capacity of dormitory facilities on campus provides accommodations for approximately 2,500 students.

Shorts dormitory was completed in September, 1968 and houses approximately 200 male students. At present, forty men students are housed in Shenandoah Apartments and Lincoln House.

All of the residence halls are two or three story buildings. The College provides bed linen. If students bring extra blankets and linens, they must have them laundered at their own expense. Individual personality and charm can be added to the rooms by rugs, curtains, bedspreads, radios, and other personal items.

Maid service is provided in each dormitory, although students are required to care for their own rooms and make their own beds. A hostess lives in each dormitory to furnish guidance and counseling to students. Student assistants, with work scholarships, aid the hostess in each dormitory.

Gibbons Dining Hall, designed to serve over 2,000 people at one sitting, is located directly behind Wilson Hall at the center of the campus. Also, there is temporary housing in this building for the Post Office, Bookstore, Snack Bar, and the Women Day Students' Lounge. These services will be transferred to permanent locations in the new student activities center now under construction.

The *Madison Memorial Library* contains approximately 140,000 volumes and receives about 765 current periodicals. Nearly 6,000 books are

added annually. The book collection has been carefully selected to provide the books necessary to supplement the college studies of all students and to permit students to read widely in subjects not covered by formal classes. The office, classrooms, and laboratory for the Department of Library Science are in the library.

The Bureau of Teaching Materials, a service agency of the State Department of Education, is located on the lower floor of the library to provide films to the public schools of the northern region of Virginia as well as for Madison College classrooms.

Wilson Hall, the building at the top of the mall, is the central administration building as well as one of the principal classroom buildings. Here are located the offices of the President, the Dean of the College, the Assistant Dean, the Registrar, the Director of Admissions and Student Aid, the Director of Field Services and Placement, the Business Manager, the Director of Buildings and Grounds, the Executive Assistant to the President, and the Director of Public Relations. On the second, third and fourth floors are classrooms, laboratories, and faculty offices of the Departments of Education, English and Psychology. *Wilson Hall* includes the College auditorium, with a fully equipped stage and a seating capacity of 1,400, and the Men's Lounge on the ground floor level.

Burruss Science Hall houses the Departments of Biology, Chemistry, Geology, Mathematics and Physics. In addition to classrooms and offices for these departments, the building includes modern, well-equipped laboratories. New additions were built recently on either end for more classrooms and laboratories.

Maury Hall contains faculty offices and classrooms. The oldest (non-fireproof) academic building on campus is to be demolished and replaced with a new administration building. The offices of the Director of Laboratory School Experiences and College Field Supervisors of Student Teaching are located here.

Keezell Hall accommodates the Departments of Foreign Languages, Social Science, and Physical and Health Education.

A wing of this building includes a gymnasium and a swimming pool. The pool is lined with tile, and equipped with machinery for filtering, heating and chlorinating the water. Showering and dressing facilities are available.

Anthony-Seeger Campus School is named for two retired faculty members of the College, Miss Katherine Minor Anthony and Miss Mary Louise Seeger.

Among the features of the building are a well-equipped auditorium, a cafeteria, a library, a health center, a play room, and several clinical service centers.

Classrooms are provided for a nursery school, kindergarten, and grades one through six. There also is a special education classroom.

The purposes of the Anthony-Seeger Campus School are:

1. To serve as a model school in the community, thus providing opportunities for those interested to observe optimum learning situations in which tested procedures are used;
2. To afford initial laboratory experiences (observation, demonstration) for undergraduate students preparing to teach;
3. To serve as a center for the development of research units, curriculum guides, and audio-visual aids; and
4. To provide limited student teaching opportunities for college students.

Duke Fine Arts Center houses the Music and Art Departments, and Latimer-Shaeffer Little Theater.

Harrison Hall Annex houses the Department of Business. Harrison Hall main building is in the process of being remodeled into a classroom building to house the Departments of Social Science and History.

Johnston Hall ground floor has temporary makeshift classrooms for the Department of Physical and Health Education.

Moody Hall houses the facilities for the Home Economics Department. In addition to lecture rooms, lecture-demonstration rooms, food laboratories, a dining room, conference room, clothing laboratory, lounge, two-room apartment, and five individual offices, there is an auditorium-lecture room with a stage and a seating capacity for 160 persons.

Alumnae Hall was built largely through the generous contributions of the alumnae and friends of the College. In Alumnae on the first floor are the offices of the Dean of Student Services, the Dean of Women, the Dean of Men, and the Assistant Deans of Women. The large parlor on the first floor of this building is a general reception room used for a student dating center and for formal and informal gatherings of students, faculty members, alumnae, and town-and-gown groups. On the second floor are the office of the Alumni Director, the College's FM radio station, and offices of the Counseling Center.

Varner Home Management House provides two practice units for home economics students who live together for an eight-week period and practice management of a home under the supervision of a home economics instructor.

Hillcrest is the home of the President of the College. It was built in 1910 by President Burruss and occupied for 8 years by President Burruss and his family and for 30 years by President Duke and his family. It was renovated in 1949 for occupancy by President Miller, and redecorated in 1967.

Walter Reed Infirmary was opened in the Fall of 1959. This is a modern health facility. It provides twenty-six beds and includes a doctor's private office, two examining rooms, laboratory, therapy treatment room, diet kitchen, medicine room, and a principal nurse's station.

The *Field Sports House*, a small structure, was completed and ready for use in 1965 by the Physical Education Department. Built with one large room, it is essentially used for instructional purposes when inclement weather prohibits outdoor classes on the adjacent playing fields. There is limited storage space for athletic equipment and a faculty office in this facility. Since the building has a small kitchen, it may be used also for informal meetings.

The *Laundry-Shop-Storage* building is a multi-purpose structure housing the College's laundry facilities, including storage space and maintenance shops.

In addition, *Rockingham Memorial Hospital*, adjoining the campus, is a 325-bed community hospital which serves Harrisonburg and the surrounding areas. Students who need hospital and medical care beyond the capacity of the College infirmary are admitted to this modern, well-equipped hospital.

The Alumni Association

The purpose of the Alumni Association is to keep the College in touch with its graduates, both men and women; to acquaint them with its work, its plans, and its needs; to further their interests in all possible ways; and to promote warm fellowship among them by providing frequent reunions.

There are sixteen local chapters, fourteen in Virginia, one in Baltimore, and one in Charleston, West Virginia. These chapters are active in keeping contacts with the College, in continuing friendships, and in interesting new students in coming to Madison. In order to put the work of the Association on a sound financial basis, the Madison College Alumni Association recently established The Madison College Fund to which it is asking all alumni to contribute.

The Association keeps a directory of graduates of Madison College, publishes quarterly "The Madisonian," and holds a special reunion every year in the spring, when all former students are invited to visit the College.

Parents' Association

The Parents' Association was established in 1964 to provide an opportunity for parents to better acquaint themselves with the College and the Faculty. An annual Parents' Day is organized with various activities including classroom visits. A Board of Directors for the Association is elected each year and meets annually on Parents' Day.

STUDENT LIFE

Student Government

In determining policies which affect student life, both the administration and faculty follow democratic procedures. Student opinion is not only welcomed but is frequently sought before reaching final conclusions about matters which involve the welfare of students. The student body through its Women's Student Government Association, Honor Council, and Men's Student Organization, assumes a large responsibility for student government, including the enforcement of general and social regulations, the honor code and appropriate standards of conduct, and the recommendation of constructive policies for enhancement of happy and wholesome student life on the campus.

The *Women's Student Government Association*, made up of all the women students, elects the officers of the Association, who, together with representatives elected by each of the classes, constitute the Student Council. The Student Council handles problems of student government and promotes the leadership and cooperation needed for democratic student life on campus.

The *Men's Student Government Organization*, composed of all the men students at Madison, exists to promote the welfare of the men students and the College as a whole. The organization includes a Student Court which considers cases of infringement of college regulations, standards and traditions, as well as breaches of social etiquette, and other matters contrary to the best interests of Madison College and the men students.

The *Honor Council*, elected by the students, works with the Student Government and the Faculty Judiciary Committee of the College to promote honorable behavior in conduct, speech, and writing. The Honor System was created by students who believe that every person who enrolls at Madison College will be proud to belong to an organization which will not tolerate lying, cheating, or stealing.

Certain major standing committees also have important functions and responsibilities in assisting the Student Governments to administer the program of student government on the campus. These include the *Inter-Dormitory Council* for women and the *Hall Council* for men, the *Junior Marshals and Ushers*, the *Standards Committee* (for promoting high standards of conduct and appearance), and the *Social, Fire, Recreation, and Fact-Finding Committees*.

Administrative Regulations

The State of Virginia requires that every student who avails himself of the privileges of an education at Madison College exhibit at all times the qualities of good citizenship as defined and upheld by the best public opinion in our Commonwealth.

The Governing Board has assigned responsibility for the administration of the College to the President including the full authority to make final decision in all matters governing the conduct of students. Certain administrative officers and faculty members have been appointed to assist him in carrying out this responsibility.

The following general statements cover the most important regulations:

1. Students are expected to attend classes and all other regular exercises of the College from the first day of the session to the closing day.

2. Women students are required to live in a college residence hall unless they reside at home or with a near relative, or unless accommodations on the campus are not available. Women students who room in town must live in homes approved by the Dean of Student Services on the recommendation of the Dean of Women.

3. Day students should notify the Dean of Men or Dean of Women of change of address not later than twenty-four hours after the change is made.

4. Resident students who remain in private homes in Harrisonburg during short vacations will be expected to conduct themselves in keeping with college standards.

5. No female student in residence at the College may leave her dormitory for the night without the approval of the Dean of Women or an Assistant Dean of Women. For all students except "mature" students permission to leave Harrisonburg must be granted in writing by parents or guardians. (See the *Student Handbook* for definition and privileges of "mature" students.)

6. Students on campus are not permitted to use or have in their possession intoxicating liquors of any kind. Conduct while absent from the campus which reflects discredit on the College subjects the person to disciplinary action.

7. The College is not authorized to extend credit to students; nor does the College assume any responsibility for bills incurred in Harrisonburg. Prompt payment of all bills is encouraged.

8. Students may not use in their rooms any electrical appliances except radios, hair dryers, electric typewriters, and electric sewing machines used by students taking clothing classes.

9. Students when registering must use their proper legal names, and students who are married while in college must immediately register under their married names. A change of legal name or home address is to be made known promptly to the Office of Student Affairs.

Any minor student who marries without the full knowledge and consent of his or her parents may be required to withdraw from the College by the President. Such consent must be submitted in writing by the parents to the Dean of Women or the Dean of Men prior to the marriage. If required to withdraw, the student may not re-enter until the lapse of two full semesters or the equivalent.

A student twenty-one years of age or older must give written notice to the Dean of Women or the Dean of Men of his or her intentions to marry. Failure to do so may result in the student being required to withdraw from the College by the President. If required to withdraw, the student may not re-enter until the lapse of two full semesters or the equivalent.

These regulations also apply during holiday periods of the school session.

10. No solicitation, such as taking orders or selling merchandise to students and employees, or fund raising for any purpose, is permitted in the buildings or on the grounds of Madison College without permission of the Dean of Student Services.

11. A resident student who disturbs the sleep or study of other students will forfeit the right to a room in a college residence hall.

12. The authority to suspend or dismiss students is vested in the Administration of the College. The *Student Government* investigates and imposes penalties for violations of regulation as set forth in the *Student Handbook*; the *Honor Council* investigates and imposes penalties for violations of the Honor Code including in its jurisdiction all cases involving cheating, lying, or stealing, which are breaches of honor and are not tolerated by the College. Recommendations for suspension or dismissal by the *Student Government* or the *Honor Council* are reviewed by the *Faculty Judiciary Committee* which submits its recommendations to the *President*, who may suspend or dismiss students for such violations or for other serious misconduct.

13. Whenever in the judgment of the President, the continuation of any person as a student at Madison College interferes with the educational functions of the College, the student may be required to withdraw from the College.

14. Good citizenship as well as satisfactory scholastic achievement is required of all students at all times. Students who cause the College to receive unfavorable public notice, or who conduct themselves in such manner as to interfere with the educational functions of the College, may be required by the President to withdraw from the College.

15. All students are required to comply with the automobile regulations of the College as set forth in the *Student Handbook* to which specific reference is made.

16. The College does not accept for admission, readmission or registration those applicants who are unwilling to meet the standards, academically, socially, or by way of dress, personal appearance, and general conduct, as set forth by the College.

17. The College reserves the right to refuse readmission at the beginning of any summer or regular session to students who have failed to give evidence of constructive campus citizenship.

Withdrawal

Voluntary Withdrawals: A student desiring to withdraw from college must have a conference with the Dean of Men or Dean of Women who will then report on the case to the Dean of Student Services. The Dean of Student Services must approve such requests. For a minor, written permission from the parent or guardian must be furnished. When the Dean of Student Services is cognizant of the full situation and reasons for desiring to withdraw, suggestions and recommendations may be made which may enable a student to remain in college.

Withdrawal request blanks are available in the Offices of the Dean of Men or Dean of Women. All withdrawal requests should be filled out on the official printed forms and submitted to the Dean of Men or Dean of Women on the date of withdrawal. Strict compliance with this requirement is mandatory. A student who voluntarily withdraws *without receiving official approval*, will receive a grade of "F" for all courses in which he or she is enrolled. A student who voluntarily withdraws due to extenuating circumstances will receive a "W" in all courses upon the recommendation of the Dean of Student Services. A student withdrawing for other reasons will receive a "W" in all courses where at the time of withdrawal the grade is "D" or above. The "F" grade will be recorded in all courses where at the time of withdrawal the work is below a "D" grade.

An adjustment in charges will be figured from the date the completed withdrawal card is received in the Office of the Dean of Men or Dean of Women. No adjustment in charges will be made unless the filled-in and signed withdrawal form is furnished to the Dean of Student Services within thirty days after withdrawal from the College.

Enforced Withdrawal: Students who are persistently neglectful of duty or whose conduct fails to measure up to the standards of the College may be required to withdraw or not permitted to return to college.

Attendance

The attendance policy of Madison College has two parts, one for first semester freshmen, and one for attendance of all other students. The separate provision for first semester freshmen is designed to help them to make a successful adjustment to college study.

First Semester Freshmen

First semester freshmen are permitted only one absence from any course. Any subsequent absence will be reported to the Dean of the College.

The General Policy

Responsibility for class attendance is specifically that of each student, who is expected to attend classes regularly and punctually. Students should realize that class participation is a valuable experience and that the worth

of this academic experience cannot be measured by papers and tests alone. It is assumed that students are sufficiently mature to appreciate the value of regular class attendance and to recognize the consequences of failure to attend.

Absences for certain reasons may be certified. A certified absence differs from any other absence in only one point; namely, for a certified absence the student must be permitted to make up any test, quiz, or the like, which is used in computing grades for the course. For any other absence, permission to make up work missed is at the discretion of the faculty member. Absences due to illness may be certified by the College Physician. Students who become ill while at home or away from the College should obtain a statement verifying the illness from the attending physician and present it to the College Physician for his certification. Absences caused by death or serious illness in the immediate family and those due to religious holidays and emergencies may be certified by the Dean of Women for women students and by the Dean of Men for men students. Absences caused by representing the College in an organized activity approved by the Head of the Department and the Dean of the College will be certified.

Certified absences should be brought by students to the attention of the instructors of classes missed by presenting the statements of certification. Students should make arrangements for make-up work prior to an anticipated absence or by the first class meeting after being absent. Unnecessary delay on the part of the student forfeits the right for this make-up privilege.

Attendance will be checked daily by faculty members.

Grades are determined by the quality of work done by the students in fulfilling the requirements of the course.

Student Health

A medical history and a report of a medical examination must be submitted by all freshmen and transfer students on forms provided by the College. After two years of attendance at Madison, the student is expected to be in satisfactory physical condition for college work and a report of a medical examination, recorded on forms provided by the College, is required of all third-year students.

The College Infirmary is staffed by the College Physicians and four registered nurses. Out-patient service, bed care for minor illnesses, and emergency care for all injuries and illnesses are provided.

Guidance and supervision of students' campus health problems in co-operation with the Health Council and the administrative officers of the College are also important features of the health services. The student health service places emphasis upon general medical advice to students and upon the prevention and treatment of incipient and early illness. The chief emphasis of the infirmary is upon the care of students with minor illnesses which do not require hospitalization.

Madison College provides a balanced health and physical education program. The College not only provides an interesting and active program in its various courses but also encourages student participation in intramural, extramural, and intercollegiate activities.

Physical education facilities found on the campus include a gymnasium, two hockey fields, tennis courts, swimming pool, a dance studio, and an archery range.

Students are required to take courses in health and physical education. Modifications of the physical education program must be authorized by the College Physician through the Dean of the College; therefore, such requests with any supporting recommendations from private or family physicians must be submitted to the College Physician for consideration and approval.

Student Guidance

Guidance to students at Madison College is a continuing process. It begins with prospective students talking to field representatives about the College's curricula, dormitory living, scholarships and costs and other aspects of the institution.

Each student has a faculty adviser all through his college career. This counseling is particularly intensive during the first semester at the College. After this time, if the student shows an ability for self-direction the conferences between adviser and student are made voluntary.

Quite often the same faculty member will serve as adviser for all four years, providing his adviser is in the student's major department. If not, at the end of the first year, a departmental adviser is designated.

In an interlocking advisory system, the College Counseling Center Staff and the Deans of Men and Women are available upon request of students or faculty for counseling conferences during which data from various tests, the student's abilities, interests and aptitudes along with vocational opportunities and trends are discussed to clarify the individual's thinking about certain problems. A battery of tests may be given when needed. The Dean of the College, the Dean of Student Services, and other administrative officers are also available for counseling.

Even after graduation, a field representative will contact those graduates with teaching degrees to advise and help them in their profession.

Campus Life

Madison offers excellent opportunities for active and stimulating social and cultural life for small and large groups of students. Through the Social Committee, Standards Committee, Recreation Council, dance clubs, and other campus organizations, a strong and varied social program provides opportunities for all students. The Dean of Women, the Dean of Men, the

Assistant Deans of Women, and their assistants exercise general guidance of the social activities of the students.

Recreation rooms in the dormitories are equipped with comfortable furniture, ping-pong tables, game facilities, radio-phonographs and television. These rooms are open to students at all times and are used as dating centers several nights each week. The reception rooms in all of the dormitories are available for various types of entertainment, meetings, and other events.

The *Snack Bar*, located in Gibbons Dining Hall, is a gathering place for students and faculty members.

The *College Camp* on the Shenandoah River is a spacious, converted farm house where groups of students can spend refreshing week ends in the company of faculty members of their own choosing. Here they do their own cooking and housekeeping and enjoy outdoor recreation.

Excursions to interesting and colorful spots are arranged by Madison College upon requests from students. The many famous Virginia caverns, the mountains, the historic battlefields and other points of interest offer entertaining as well as educational experiences. The College bus may be scheduled also to take students to outstanding attractions or entertainments in Washington, D.C., and Richmond.

Entertainments of many kinds are a definite part of Madison social life. There are movies almost every Saturday night in Wilson Auditorium; there are concerts, formal and informal dances; there are the College plays; there are plays and concerts given by leading American actors and musicians; there are teas and coffee hours; there are frequent student recitals; and occasional Thursday assemblies which are essentially entertaining.

The City of Harrisonburg also affords interesting entertainment opportunities. The *Valley Players* offer outstanding little theater productions and a series of fine arts programs are presented at the College in the Wilson Hall Auditorium each year by the *Community Concert Association*. (Students may purchase tickets to community concerts at a reduced rate.)

Madison College cooperates with the University Center in Virginia in bringing outstanding personalities in the several academic and specialized fields to the College through the *Visiting Scholars* program.

Madison College has seven social *sororities* (Alpha Gamma Delta, Alpha Sigma Alpha, Alpha Sigma Tau, Phi Mu, Sigma Kappa, Sigma Sigma Sigma, and Zeta Tau Alpha) which operate under the general control of the College faculty and local Panhellenic Council. These are all members of the National Panhellenic Council.

There are two *dance clubs* on campus, Cotillion and German, through which large numbers of students provide formal and informal dances for all who are interested.

Madison College has four social *fraternities* on its campus (Phi Alpha Pi, Phi Kappa Beta, Sigma Phi Epsilon, and Tau Kappa Epsilon). These organizations are members of the Inter-fraternity Council and operate under the jurisdiction of the College administration.

The *Sesame Club* for women day students promotes the general welfare of these students.

Co-Curricula Activities

Much of the social life, as well as the intellectual life of the students, is built around the co-curricular activities—those organizations and clubs which are often related to classroom activities but which are student-centered and student-operated with assistance from faculty members.

Almost every academic department sponsors a club for the out-of-class interests of its students: Alpha Rho Delta (classics), Art Club, Association for Childhood Education, Business Club, Curie Science Club, El Club Espanol, Frances Sale Club (home economics), Future Business Leaders of America, International Relations Club, Le Cercle Francais, Mathematics Club, Mercury Club (physical education), and Social Science Club.

The Women's Athletic Association is an organization to which all Madison College women students belong. Through its officers and committees the WAA sponsors intramural sports, extramural sports, and inter-collegiate competition in hockey, swimming, basketball, fencing and tennis. Club activities include the Dance Theatre, Fencing Club, Porpoise Club, Pegasus Club (riding), and the Bowling Club. The WAA provides opportunities for all students to participate in their favorite sports.

The Men's Athletic Association sponsors intercollegiate teams in soccer, basketball, tennis and golf. It also offers a comprehensive intramural sports program. All male students are members of the association and are encouraged to participate in any and all activities.

Madison College is a member of the Virginia Intercollegiate Soccer Association and the N.C.A.A. Cross country, swimming, wrestling, baseball, track and field will be added to the intercollegiate program in the near future.

Musical Organizations are numerous. There is the *Concert Choir*, an outstanding group of about sixty students under the leadership of the Department of Music staff, which makes many public appearances on the campus, in Harrisonburg, and in other parts of Virginia. The *Orchestra* and the *Band* are well-equipped and competently directed organizations which perform on campus and elsewhere. A recently organized chapter of *Sigma Alpha Iota*, a national professional music sorority, provides many opportunities to members for varied contacts in the field of music. The *Diapason Club* is an organization for students of organ. The *Madison College Chorale* is a group of students who specialize in madrigal singing. The newest group, *Music Educators National Conference*, is a Madison student chapter for students in music education.

Student Publications at Madison consist of *The Breeze*, *Bluestone*, *Chrysalis*, and the *Student Handbook*. *The Breeze* is a bi-weekly newspaper managed and produced by the students. *Bluestone* is the College annual, and is typical of the traditional college yearbook. *Chrysalis* is the campus literary magazine, managed and produced by members of the Criterion Club. The *Student Handbook* is an annual publication devoted to information about student life, student organizations, and regulations.

Speech and Debate Activities are under the leadership of the Director of Forensics in the department of Speech and Drama and the *Madisonian Debaters*, a student group which participates in various debate tournaments around the country. The group also hosts and conducts a high school speech tournament on the Madison College campus each year.

WMCL—The voice of Madison College is its FM Radio Station which maintains a daily program schedule. The station is operated by the student body under the general direction of the FM Radio Committee of the College. Offices and studios are located on the second floor of Alumnae Hall. All interested students are encouraged to participate.

Dramatics at Madison College is under the leadership of the Director of Drama in the Department of Speech and Drama and the Stratford Players, a student group. Several productions are presented each year in the beautiful Latimer-Shaeffer Theatre. All interested students are invited to participate.

Gamma Kappa Chapter of Kappa Pi, international honorary art fraternity, has as its purpose the promotion of art interest among college students, stimulation of higher scholarship and the recognition of ability in the field of art.

Literary Activities at Madison College are under the leadership of the *Criterion Club*, a student group organized for the purpose of inspiring an appreciation of literature in all its aspects. The aim of the club is to provide students with the opportunity to develop literary talents and interests.

Kappa Delta Pi, a national honor society, encourages high professional, intellectual, and personal standards among students who are preparing to teach. It endeavors to maintain a high degree of professional fellowship among its members and to quicken professional growth. Distinction in scholarship is required for membership.

Sigma Alpha Iota is an internationally incorporated professional fraternity for women in the field of music. Its purposes are to uphold the highest ideals of a musical education, to raise the standard of productive musical work among women college students, to further the development of music in America, and to give inspiration and material aid to its members. Membership is based upon scholarship, musicianship, personality and character, and is open to college music students of undergraduate and graduate level and to music faculty members.

Sigma Phi Lambda is a local organization honoring scholarship. Its major purpose is to stimulate students early in their college life to do the

best work possible. Membership is limited to women upperclassmen and second semester freshmen with a 3.00 average.

Pi Omega Pi is a national honorary fraternity for men and women preparing to teach business education. The chapter endeavors to promote high ideals of scholarship and leadership in business education. Election to membership is based upon scholarship and professional promise.

Alpha Alpha Chapter of Alpha Beta Alpha, the national undergraduate library science fraternity, has as its purposes continuing professional library science education, the promotion of fellowship among its members, and the recruiting of individuals for librarianship. Membership is based upon scholarship as a whole and library science in particular, and is open to prospective and practicing librarians.

Sigma Eta is the local chapter of the national Phi Sigma Iota Honor Society. It has as its purpose the recognition of outstanding ability and attainment in Romance languages and literatures and the stimulation of advanced work and individual research in this field. Membership is open to undergraduates, graduates and faculty members. Undergraduates must have at least a "B" average in their entire college course as well as in all courses in Romance languages. Every active member must prepare at least one paper during his active membership.

Phi Omicron Tau is the local home economics honorary fraternity. To be qualified for membership, a student must be in her junior or senior year, majoring in home economics, with a cumulative average of 2.5 and a 3.0 average in home economics subjects.

The Percy H. Warren Honor Society is a scholastic and leadership society for senior women. Its purposes are to promote college loyalty, to advance the spirit of service and fellowship among university women, to maintain high standards of scholarship, to recognize and encourage leadership, and to stimulate and develop a finer type of college women. To be considered for membership, a student must have an outstanding accumulative grade average or be in the top 35%, scholastically, of the junior class. The Society is limited to not more than twenty-five members. Founded in 1966, it is named in honor of the late Dean of the College.

Religious Life

Although Madison College, being a State institution, is undemoninational, it encourages religious interest among its students.

In Harrisonburg are churches of many faiths: Adventist, Baptist, Church of the Brethren, Church of Christ, Church of the Nazarene, Episcopal, United Church of Christ (Evangelical and Reformed), Hebrew, Lutheran, Mennonite, United Methodist, Presbyterian, Peoples Baptist, and Roman Catholic. These churches and the young people's organizations connected with them are doing active work, and all students are cordially welcomed in them. Several of the larger churches have assistants who devote a great deal of their time to college students.

There are number of active church-related organizations on the campus:

Baptist Student Union
Canterbury Club (Episcopal)
Christian Science Club
United Church of Christ Club (Evangelical and Reformed)
Junior Sisterhood (Hebrew)
Lutheran Student Association
Nazarene Young People
Newman Club (Catholic)
Schwarzenau Club (Church of the Brethren)
Youth Fellowship; Wesley Foundation (United Methodist)
Westminster Fellowship (Presbyterian)

The Young Women's Christian Association furnishes student leadership in campus religious life. It conducts weekly devotional and discussion meetings, sponsors recreational activities, participates in State-wide college Y.W.C.A. Conferences, sponsors a Religious Emphasis Week, and offers an opportunity for special training in the national Y.W.C.A. Training School or regional conferences.

Faculty advisers, selected by the Y.W.C.A. Cabinet, assist the officers and members, give attention to the religious interests of all students, and encourage all agencies which promote the spiritual development of the students.

The Young Men's Christian Association has somewhat the same objectives as the Y.W.C.A. It assists the Y.W.C.A. in advancing the cause of Christianity and supports desirable campus projects.

Freshman Orientation

All freshmen and transfer students are required to report prior to the beginning of classes for orientation activities.

Some of the activities planned for the orientation period follows:

1. General achievement testing in mathematics, history, and foreign languages to supply advisers with information about students, so that they can give greater assistance in individual conferences with students
2. Tests for students who wish to be exempt from Basic Studies courses
3. Business placement testing for students who have taken shorthand and typing in high school and who plan to register in the business program
4. Music placement tests for those in the music program

5. Physical education testing for fitness. Conferences with the College Physician by those students with health problems
6. Individual and group counseling by advisers
7. Interviews with the Dean of Men or Women and the Counseling Center staff for students who have not definitely decided upon their program of study
8. Informal instruction concerning Student Government and the Honor System
9. Indoctrination in the traditions of Madison College
10. Programs to provide information about the academic offerings at Madison
11. Entertainment by student activities groups, and other activities to assist new students in getting to know faculty members, old students and community people.

Aids to Student Development

Of genuine importance to a college—and hence to its students—are the many special opportunities which are concentrated on the campus. Madison believes that what the student learns in the classrooms is only a part of what he can learn while he is in college. Over the years the College has developed a number of supplementary services which play an important role in the personal and professional development.

The Lyceum Series includes outstanding musical and theatrical artists.

The *Visiting Scholars* program, in cooperation with the University Center in Virginia, brings outstanding personalities in the several academic and specialized fields to the College.

Student and Faculty Exhibitions and Recitals periodically present the work of Madison artists in music and the arts.

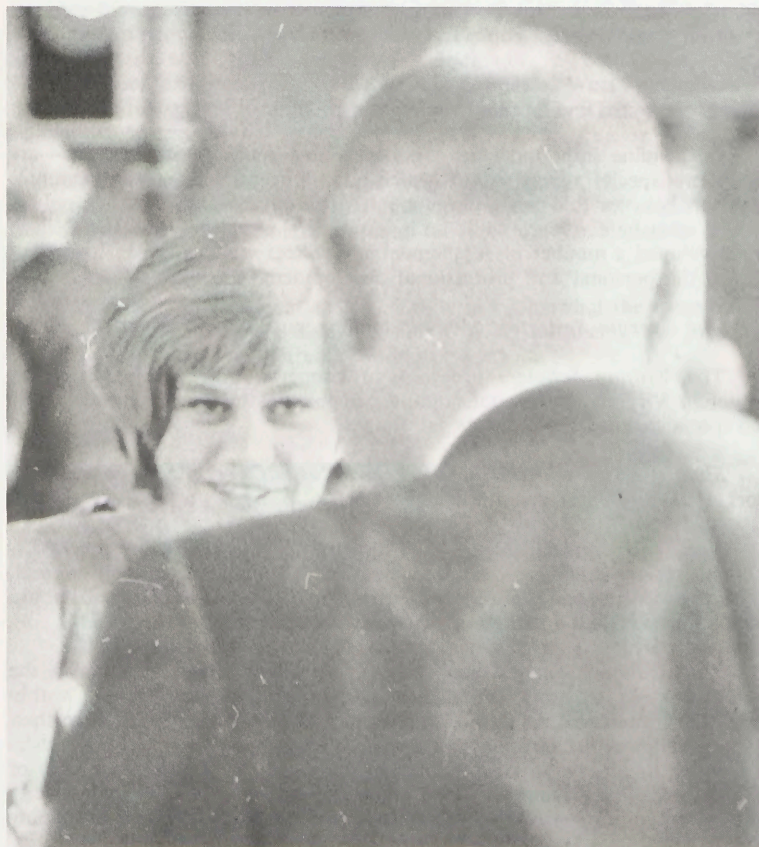
The Speech and Hearing Clinic, directed by a specialist in speech correction, serves students who need help with functional speech defects; students preparing to teach speech; and children and adults of Harrisonburg and vicinity who need help with functional speech problems.

The Reading Center works closely with children and teachers in the Anthony-Seeger Campus School and in the public schools located within the area, in analyzing reading difficulties and helping pupils to improve their reading abilities. In addition this Center affords opportunities for teachers in training to observe and participate in the diagnoses and improvement of children's reading disabilities. The Center also works in an advisory capacity with a limited number of college students who need improvement in reading skills.

The Child Guidance Center serves children and adolescents enrolled in the Campus School and in the public schools in Harrisonburg and its environs. The Center provides students in teacher-preparatory curricula opportunities to observe the analyses of personality disorders and to acquire experience in testing procedures. Because of limited personnel the major function of the Center at the present time is diagnostic rather than therapeutic.

A Body Mechanics Clinic directed by the Department of Physical Education is available to students who are in need of help in the correction of functional remediable defects of posture and carriage.

The College Counseling Center provides various study skills programs to aid student development.



Academic Information



ADMISSION

Admission to Madison College is competitive. The number of new students admitted each year is limited by the available dormitory and instructional space. All applications for admission will be examined in accordance with the policies established by the Committee on Admissions and approved by the Board of Visitors. The Committee accepts for admission those applicants who seem to be best qualified to benefit from the educational opportunities offered by the College.

Initial admission to the College does not assure continued attendance for succeeding sessions. Students enrolled at the College who wish to attend the following summer or regular session must apply for re-admission prior to the beginning of any summer or regular session term. Application forms for re-admission will be mailed to students prior to registration and must be filled in and submitted to the Director of Admissions. After the initial mailing, re-admission forms may be obtained from the Office of Admissions.

FRESHMAN STUDENTS

A personal interview is *strongly recommended* for each applicant. The student should make an appointment with the Director of Admissions prior to a visit to the Madison College Campus. The Director's visitations to the secondary schools also provide an opportunity for interviews.

Admission Requirements

The general requirements for admission to Madison College are:

- (1) graduation from an accredited secondary school or its equivalent as shown by examination;
- (2) rank in the upper one-half of the graduating class;
- (3) satisfactory scores on the standard tests administered by the secondary school;
- (4) an acceptable score on the Scholastic Aptitude Test of the College Entrance Examination Board (morning session);
- (5) satisfactory health certification;
- (6) recommendation for admission by the high school principal, headmaster, or his authorized representative.

No one of the above requirements would necessarily exclude an applicant for admission to Madison College. These requirements provide information to be used by the Committee on Admissions in acting upon applications.

Application Procedures

Application for admission to Madison College should be submitted early in the first semester of the high school senior year.

The first step in the admission procedure is to complete the preliminary application form which appears in the last section of this bulletin. The application should then be mailed along with the application fee of ten dollars (\$10.00) to the Director of Admissions, Madison College, Harrisonburg, Virginia 22801. This application fee is required of *all applicants*. It is not refundable or transferable, and will not be credited to the student's account.

Upon receipt of the completed preliminary application form and application fee, the Regular Application form for Undergraduate Admission will be sent to the applicant. This form should be carefully completed and submitted to the secondary school Guidance Counselor, or Principal, with the request that the applicant's transcript be attached and returned to the Director of Admissions, Madison College, Harrisonburg, Virginia 22801.

In addition to the completed application form and the official high school transcript, the College Entrance Examination Board test scores (Scholastic Aptitude Test) must be in the hands of the Committee on Admissions before it can act upon the application. The applicant will be notified of the decision of the Committee.

In order to secure a room reservation, a fee of ninety-two dollars and fifty cents (\$92.50) is required of all dormitory applicants accepted for admission. This fee is due on or before May 1 and is not refundable. It will be credited to the student's account upon registration. If payment of this fee is not made on or before the date designated, the acceptance will be withdrawn and the application will be placed in the inactive file.

A medical history and a report of a medical examination must be submitted by all applicants on forms provided by the College in order to meet the final admission requirements. A student will not be assigned a room or permitted to register until a satisfactory report of a medical examination has been submitted. An applicant must be in good health—free from any communicable disease, and physically and mentally capable of performing the usual duties required by the College program. Any student who withholds pertinent health information may be asked to withdraw from the College.

Early Decision Plan

Madison College will give early decisions on November 1 on acceptance of qualified applicants who request it and have all credentials on file prior to the above date.

They will then have completed the March, May, or July Scholastic Aptitude Test of the College Entrance Examination Board. An unsuccessful applicant for an early decision on acceptance will have his credentials

automatically carried forward for reconsideration during the regular decision period without having to file another application. Other applicants will be processed during the regular acceptance period beginning December 15 and extending until capacity has been reached.

Recommended Preparation

Madison College stresses sound preparation in the academic disciplines.

The following is a *minimum* program of studies for students planning to enter Madison College: 4 units in English, 2 units in History and Government, 2 units in Science (Biology plus one additional unit), 2 units in Mathematics (including Algebra I, II, or Geometry), and 2 units in a Foreign Language.

Preference will be given to those applicants whose records exceed the above minimum recommendations.

College Board Examinations

All freshman applicants for admission to Madison College are required to take the Scholastic Aptitude Test given by the College Entrance Examination Board and to have the results submitted to the Director of Admissions.

The Scholastic Aptitude Test is given in November, December, January, March, May, and July. Students are encouraged to take the test during the spring of their junior year; however, the seniors should take the test in November or December. Information concerning this test program may be obtained from the high school principals and guidance directors, or from the booklet entitled, *Bulletin of Information, Scholastic Aptitude Test*, which may be obtained free by writing to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540. The booklet, *A Description of the College Board Scholastic Aptitude Test*, may also be procured by request from the above address.

Admission with Advanced Placement

In certain subjects, applicants for admission who have completed advanced work in secondary school may apply for advanced placement at Madison College. Each case will be considered individually on its merits. Madison College has made arrangements with the College Entrance Examination Board to participate in the Advanced Standing Program offered by that organization.

Students who have been admitted to Madison College or who are being considered for admission may apply to the College Entrance Examination Board for permission to take one or more of the tests. The Advanced Placement Tests are administered in May. Madison College should also be informed of the student's intentions. This should be done early in the

senior year of high school. It is suggested that interested students discuss this matter with their guidance counselors or principals. The Board reports the results of the examinations to the College. After consideration of the report, the department concerned makes the decision regarding advanced standing and credit. Each department may, at its discretion, require other evidence of ability such as personal interview and/or an additional written examination administered and graded by the department.

Advanced Standing College Board Examinations are available in the following subjects: English Composition and Literature, French, Geology, German, Latin, Spanish, American History, European History, Mathematics, Biology, Chemistry, and Physics.

In addition to the examinations offered by the College Board, Madison College gives an advanced standing examination in Music.

The address of the College Advanced Placement Examination Board is Box 977, Princeton, New Jersey 08540.

TRANSFER STUDENTS

To be considered for admission to Madison College as a transfer student, the applicant must have completed creditably the work of one term, a semester, or a year or more at an accredited institution of higher education. While no entrance tests are required, borderline cases may be asked to submit the results of three achievement tests for admission: namely, English, mathematics, and a test in the major field.

Admission Requirements

A student who wishes to transfer to Madison College must meet the following requirements:

1. Have a statement of honorable separation from that institution, and
2. Be eligible to continue or to be readmitted at that institution unless all work has been completed or the student has graduated from that institution.

Application Procedures

1. Complete the preliminary application form which appears in the last section of this bulletin and send it along with the application fee of ten dollars (\$10.00) to the Director of Admissions, Madison College, Harrisonburg, Virginia 22801. This fee is not refundable or transferable and will not be credited to the student's account.
2. Complete and return the regular application form for undergraduate admission which will be sent to the applicant by the Director of Admissions upon receipt of the preliminary application form.

3. Request all colleges he has attended to send to the Director of Admissions at Madison College official transcripts of his college record including a statement of honorable separation from that institution. Concealment of previous attendance at a college or university is cause for cancellation of admission and registration.
4. Submit a medical history and a report of a medical examination on the forms provided by the College.

Evaluation of Transfer Credits

Credit will be allowed for those courses in which the student has made a grade of "C" or better and which are equivalent to courses in the program he elects.

Special consideration will be given applicants from accredited junior and community colleges who have made acceptable academic records. Transfer students who are graduates of accredited junior colleges and the Virginia Community College System and who have earned a quality credit average of 2.50 (out of 4.00), may be allowed credit for all passing grades.

Not more than twenty-five per cent of the work toward any degree may be done through extension. Such work must be relevant to the degree for which the student is enrolled. Students should secure approval from the Registrar of Madison College in the choice of such courses.

READMISSION

A student who has withdrawn from Madison College for one semester or longer must reapply for entrance through the Office of Admissions. Applicants for re-entry to the second semester must apply and submit room fee by January first; for the fall semester, by May 1. The Committee on Admissions will review his credentials and pass upon his application. This will be done in view of the space available and in conformity with the requirements of the latest catalogue. If he has attended another institution, the work there as well as that done at Madison will be taken into consideration by the Committee.

When a student withdraws during a semester and plans to return the next session, he must submit an application and the ninety-two dollar and fifty cent (\$92.50) non-refundable room reservation fee to the Director of Admissions for consideration for re-entry.

Students who are ineligible to return to a regular session of the College on account of low scholastic average are permitted to attend no more than two summer sessions in order to attain the cumulative average required for eligibility to return to the regular session.

Any student who has been forced to withdraw from the College because of a low scholastic average must raise the cumulative credit average to meet the requirements stated in the catalogue of the year of readmission. Such students must meet the graduation requirements stated in the catalogue of the year of readmission.

SPECIAL STUDENTS

A student enrolled for less than twelve credit hours is considered a special part-time student. Special students are required to meet the same standards for admission as full-time students. An application for admission as a special student and supporting credentials must be filed with the Director of Admissions.

A special student must file an application and pay the ten-dollar (\$10.00) application fee. The fee continues in effect as long as the student remains a special or part-time student. This requirement also applies to those students enrolled in evening and Saturday classes.

Part-time students will be required to submit a second ten-dollar (\$10.00) application fee if they file an application to become a full-time student.



THE UNDERGRADUATE Program

The Dean of the College serves as executive officer in all matters of academic status. All proposed exceptional programs of study and exceptions to degree requirements must be presented to the Dean for his consideration and action. Exceptional programs of classes and exceptions to degree requirements are not permitted without the approval of the Dean. The Dean of the College also makes the decisions concerning all questions about the evaluation of credits which involve policy.

Degrees

Madison College offers curricula leading to three undergraduate degrees: Bachelor of Arts (B.A.), Bachelor of Science (B.S.), and Bachelor of Music Education (B.M.Ed.).

The program of study leading to the Bachelor of Arts degree includes fifty-two (52) semester hours in Basic Studies, twelve (12) * semester hours of a Foreign Language, and a departmental major consisting of an intensive concentration in one subject or in one area of knowledge. A minimum of one hundred and twenty-eight (128) semester hours is required for graduation.

The program of study leading to the Bachelor of Science degree is exactly the same as that leading to the Bachelor of Arts degree except that the study of a foreign language is neither required nor precluded.

Students planning a Liberal Arts program leading to the Bachelor of Arts degree or the Bachelor of Science degree will select a major concentration in the Department of Art, Biology, Chemistry, Economics, English, Foreign Languages, Geology, History, Library Science, Mathematics, Political Science, Music, Physics, Psychology, Social Science, Sociology, or Speech and Drama. Students selecting a major concentration in Business, Health, Physical and Health Education, or Social Work will be working towards a Bachelor of Science degree.

Students planning a program of study leading to the B.A. degree or the B.S. degree and the Collegiate Professional Certificate in Secondary Teaching will major in a subject-matter area and will minor in the Department of Education with a minimum requirement of twenty-one (21) semester hours in the minor.

*A student who completes the elementary year course for eight (8) semester hours credit will need to complete fourteen (14) semester hours. The language requirement may be partially satisfied by an Exemption Test. However, six (6) semester hours must be taken on a college level.

Students planning a program of study leading to the B.A. degree or the B.S. degree and the Collegiate Professional Certificate in Elementary Teaching will major in the Department of Education with a minimum of forty-six (46) semester hours in the major and will minor in a subject-matter area.

The program of study leading to the Bachelor of Music Education is for students who wish to prepare for a career in the teaching of vocal or instrumental music. The specific requirements are set forth in the catalogue section under Department of Music and are designed to qualify the student for both the Bachelor of Music Education Degree and the Collegiate Professional Certificate.

Basic Studies

Madison College offers a program of education based on the liberal arts and science tradition that is designed to prepare the student for the responsibilities of life and leadership in society. A core program of Basic Studies is required of all students. The College believes that there is a fundamental unity in all education that arises out of a general understanding of the humanities, the social sciences, and the natural sciences. The program of Basic Studies provides a foundation for later specialization that permits detailed learning in one or more of the academic disciplines, and provides an awareness of the academic heritage underlying the development of the free and responsible citizen in a democratic society. The program of Basic Studies is designed to develop in students those skills, knowledges, and attitudes which will equip them for effective personal and group living and responsible citizenship. Students concentrate on man's physical and biological environment, man's media of communication, the social sciences, physical health, and past and present cultures as expressed in music, art, and literature.

Although foreign language is not a Basic Studies requirement at Madison College, it is strongly urged that all students considering graduate study examine carefully the necessity of equipping themselves in foreign language, inasmuch as most graduate schools require some proficiency in this area. Students who are considering graduate study in the behavioral sciences should also consider equipping themselves in statistics.

In order that students at Madison College may experience the benefits to be derived from the program of Basic Studies, all four year degree students will complete twenty (20) semester hours in the Humanities, twenty (20) semester hours in the Natural Sciences, and twelve (12) semester hours in Social Sciences. Students who believe that they have competent knowledge in any one of these courses may apply to the department of instruction in which the course is given for an Exemption Test. Upon successful completion of this test a student may choose another course in any area of equal credit as a substitute.

The specific course requirements totaling fifty-two (52) semester hours are as follows:

THE HUMANITIES

1. Art 3 semester hours
Art 200. Art in General Culture
2. English 12 semester hours
English 101-102. Reading and Composition
and
English 233-234. Introduction to Literature
3. Music 3 semester hours
Music 200. Music in General Culture
4. Speech 2 semester hours
Speech 200. Oral Communication
or
Speech 250. Theory of Speech Communication
or
Speech 359. Business and Professional Speaking

THE NATURAL SCIENCES

5. Biological Science 4 semester hours
Biology 110. General Biology
6. A Physical Science..... 4 semester hours
Chemistry 101-102. General Chemistry
or
Chemistry 110. General Chemistry
or
Geology 110. Physical Geology
or
Physical Science 110. General Physical Science
or
Physics 110. Physics in the Modern World
or
Physics 121-122. General Physics

After the student has completed his class schedule and has registered, no classes may be dropped, no additions made, and no transfers to other sections made, without the approval of the Assistant Dean of the College. In the first semester, such changes as are necessary must be made on the day of registration in September designated for that purpose. After this date has passed, class adjustments may not be made without the approval of the Assistant Dean of the College and the payment of a fee of \$5.00. At the beginning of the second semester a period is set aside for necessary adjustments. Class adjustments after this period has passed must be approved by the Assistant Dean of the College, and the student will be required to pay a fee of \$5.00. The fee for late adjustments may be waived if circumstances requiring changes are completely beyond the student's control and if the changes are approved by the Assistant Dean of the College. A student may not add a course for credit after the end of the first week of classes. If a student drops a course after this time, the procedure for withdrawing with a grade of "W" must be followed.

When it is desirable, a student may be allowed to transfer from one program to another with the approval of the Assistant Dean of the College. Changes may mean some loss of time and credit. *The student must assume the final responsibility for meeting the requirements of the program which he elects.*

The College assumes no responsibility for giving any credit for a course not listed on the student's program card in the Registrar's Office, and approved by his program adviser.

Course Load

In all programs the normal load in the winter session is sixteen (16) semester hours of credit. The number of actual class hours will vary according to the number of laboratory courses in the program. Any student, including incoming freshmen, may add to the normal load one of the one-credit courses in applied music without securing special permission, thus making a load of seventeen (17) credits.

An undergraduate course load of at least twelve (12) credit hours a semester is required to live in the dormitory.

Students of sophomore, junior, and senior standing (see "Classification") if they have a cumulative rating of "B" or better, may carry a load of eighteen (18) or nineteen (19) credits without special permission. Seniors who are meeting the minimum quality rating of "C" (2.00) and who need an additional three-credit course for one or more semesters in order to meet graduation requirements may also take a load of eighteen (18) or nineteen (19) credits.

Students who enroll in Education 480c or 480x, Directed Teaching, are not permitted to enroll in additional courses during the eight-week period of full-time student teaching. The recommended semester course load is fifteen (15) semester hours for students who enroll in Education 480a or 480b on the semester plan.

Classification

The classification of a student depends on the number of semester hours of credit he has received and on his quality rating.

Freshmen are students with fewer than 28 semester hours of credit.

Sophomores are students with 28-59 semester hours of credit and a quality rating of 1.75.

Juniors are students with 60-92 semester hours of credit and a quality rating of 2.00.

Seniors are students with more than 92 semester hours of credit and a quality rating of 2.00.

Grading System

The College keeps a complete record of each student's work and sends a grade report to the parent or guardian at the end of each semester.

On grade reports, grades are reported in letters—A, B, C, D, E, F, I, and W.

"A" indicates superior achievement.

"B" indicates independence of work and high grade accuracy of knowledge.

"C" indicates average achievement.

"D" indicates passable achievement in work and is allowed for graduation provided it is balanced by better than average work in other courses.

"E" indicates unsatisfactory work, incurring a condition which may be removed by examination or, in a year course, by making a "C" or better in the following semester. When an "E" is made up by any other procedure than the repetition of the course, the highest grade obtainable is "D" and for this "D" no quality points are given.

"F" indicates failure.

"I" indicates that work is incomplete and is given only when a student is unable to complete the course work because of sickness or some other equally satisfactory reason. If this work is completed during the next semester in residence, the grade will be determined in the usual way; otherwise the grade becomes automatically an "F."

"W" indicates that the student has withdrawn from the course, with the permission of the Assistant Dean of the College, and that at the time of withdrawal his grade was "D" or above. If a student drops a course in which his work is below "D" at the time of withdrawal, the grade in that course will be recorded as an "F." After the end of the sixth week of classes (third week for block courses) no student may withdraw from a course without receiving a grade of "F" unless the withdrawal results from extenuating circumstances beyond the student's control and is approved by the

Assistant Dean of the College. If a student withdrawing under this provision is failing the class at the time of withdrawal, the grade will be recorded as an "F." All withdrawals must be approved by the student's adviser and the Assistant Dean and must be submitted to the Registrar promptly.

Graduating seniors may be permitted one re-examination for "E" or "F" grades only during the semester in which they would graduate.

Quality Rating System

Quality points are assigned per semester hour of credit as follows: A grade of "A" is assigned 4 quality points; "B," 3 quality points; "C," 2 quality points; and "D," 1 quality point. Thus a grade of "B" in a course bearing 3 semester hours of credit would be assigned 9 quality points and a grade of "C" in that course, 6 quality points. *No quality points will be allowed for an "E" which is removed by an examination or otherwise—except by repetition of the course.*

The *quality credit average* is computed by dividing the number of quality points by the number of semester hours of credit. Thus, if a student takes sixteen (16) semester hours of work and earns forty (40) quality points, his quality credit average is 2.50. *Only courses taken at Madison are used in computing the quality credit average.*

All grades earned at Madison are used in computing the quality credit average. Courses may not be repeated to raise a passing grade except under unusual circumstances, then only by permission of the Dean of the College. If a student is allowed to repeat a course, both grades, the original and the repeated grade, will be used in computing the average. *Grades earned at other institutions are not included in computing the quality credit average.*

To enroll in Education 359, 360, 369, and 370, or other junior courses prerequisite to student teaching, a student must have a quality credit average of 2.00. A quality credit average of 2.00 is required for students who enroll in Education 480, Directed Teaching.

Scholarship Requirements

The minimum scholarship requirement for good standing and permission to enroll in a subsequent semester of a regular session is as follows:

1. After the first semester of full-time study (as a freshman), a quality credit average of at least 1.00.
2. After the first year of full-time study (as a freshman), a quality credit average of at least 1.60.
3. After two years of full-time study (as a freshman and sophomore), a quality credit average of at least 2.00.
4. After three years of full-time study (as a freshman, sophomore, and junior), a quality credit average of at least 2.00.

Any student who fails to meet these standards in a regular session may apply to attend Summer School at Madison in an effort to raise his average to meet eligibility requirements for returning to a regular session. If re-admitted for this purpose, a student is limited to two summer sessions.

Transfer students who come to Madison in the sophomore and junior years must maintain a quality credit average of 2.00 in order to be eligible to return the following year.

Academic Probation

All students with a cumulative average of less than 2.00 are placed on academic probation. This regulation will become effective for each new student at the beginning of the second semester of his first year. Quality credit averages will be computed at the end of each semester at which time revised lists of the names of students on academic probation will be distributed to the faculty.

Mid-semester reports on courses in which a student is doing failing work are sent to each student and to his adviser; and, in the case of freshmen and sophomores, to his parents also. Mid-semester grades on all courses are sent to freshmen and to their parents.

Dean's List

Students who in the previous semester earned a scholarship index of 3.25 and who carried a course load of at least fourteen semester hours are on the Dean's List.

Graduation With Distinction and With Honors

A degree *with distinction* is awarded in several departments to persons who successfully undertake a program of independent reading, studies, and an Honors thesis for six (6) semester hours credit during the senior year. Application to work for distinction are limited to juniors who have achieved at least a 3.25 average and, in addition, have given evidence of sufficient initiative, originality, and intellectual maturity to warrant expectation of distinction in the program.

Applications shall be made at the completion of the first semester of the junior year to the Honors Committee. Acceptance for participation is solely determined by this Committee which must also approve the individual program for each student and designate a faculty member to direct the study. The thesis is expected as the culmination of the program. Instructions for application for Honors may be obtained at the *Office of the Dean of the College*.

Effective with the 1969 commencements, the College will award bachelor degrees with honors to persons so qualified. In order to be eligible for graduation with honors, the student must have been in residence two years or more and have completed a minimum of sixty semester hours of course

work on campus. The student must have a cumulative average as required below on all course work including that taken at any other college and must maintain at least the minimum average required for Honors (3.25) of his work at Madison College:

<i>cum laude</i>	3.25 - 3.499
<i>magna cum laude</i>	3.50 - 3.749
<i>summa cum laude</i>	3.75 and above

Study Abroad

Qualified students may study in a foreign university during their junior year, and under special circumstances, during the sophomore year. Arrangements should be made through the Institute of European Studies or with some university on an individual basis. Students desiring to study abroad should consult Mr. John Stewart, Chairman of the Foreign Studies Committee.

Graduation Requirements

To receive a degree from Madison College, a student must—

1. Have a good citizenship record at Madison College both on and off campus;
2. Have a minimum of 128 credit hours;
3. Have a scholarship index of 2.00 or better;
4. Have a scholarship index of 2.00 or better in his major subject;
5. Meet the course requirements of one of the curricula leading to the degree for which he is a candidate;
6. Pass the Junior English Proficiency Examination;
7. Have spent a minimum of two semesters, in residence at Madison College, and have earned a minimum of thirty-two (32) semester hours of credit during this term of residence;
8. Be a student at Madison College during the semester in which the requirements for the degree are completed;
9. Attend the commencement exercises;
10. Meet the requirements set forth in the catalogue of the year of his re-entrance, if he has previously withdrawn from the College.

A student expecting to graduate at the end of any semester must file a *written application with the Registrar at the beginning of that semester.*

Responsibility for meeting the requirements for graduation rests with the student.

Screening Program in Teacher Education

A plan for the purpose of counseling and screening students in teacher education curricula has been established at Madison College. The essential elements of the plan are as follows:

- a. The Counseling and Screening Committee consists of six members: the Director of the Division of Teacher Education, the Director of Student Teaching, the Dean of Student Services, the Major Adviser of the student concerned, and the Heads of the Departments in which the student is majoring and minoring. Any member of the faculty who knows or works with the student may be called in for consultations by Committee or the student concerned. The Committee will report all screening activities to the Dean of the College who has final authority to act on each case.
- b. The basic criteria used in advising students in the teacher-preparing curricula are the following: (a) possession of a broad background of general education; (b) adequate preparation in the major and minor fields (at least an average of 2.0¹ in the subject field); (c) adequate preparation in the professional field (at least a 2.0 average in the professional field); (d) good health and freedom from physical handicaps detrimental to teaching effectiveness; (e) good mental and emotional health; (f) freedom from speech and hearing handicaps; (g) effective command of the English language, both oral and written.
- c. All students in the teacher-preparing programs will submit a simple application form requesting permission to continue in the teaching programs by October 1 of their third semester in residence. This form should include the following information: (a) the student's name; (b) the student's program; (c) a paragraph on the following topic: "Why I Want to Be a Teacher;" and (d) other pertinent information.
- d. At the end of the student's third semester of residence the Committee will screen all applicants who have a quality point rating of 1.75 and above, using as many of the criteria as possible listed in *b* above, and initiate guidance with those individuals who seem unsuitable for the teaching profession. The Committee will point out to such individuals before they register in the spring for their junior year those deficiencies which should be removed in order to continue in the teaching programs. Close follow-up of such student will be made in order to help the student overcome his handicaps.
- e. Students who transfer to Madison with sixty (60) semester hours of work should submit their application described in item *c* at the beginning of their second semester of residence at Madison College.
- f. The Counseling and Screening Committee will review the records of all students in the teaching programs at least twice a year begin-

¹The quality point system used at Madison is: A=4; B=3; C=2; D=1.

ning with the sophomore year. The function of the Committee is advisory in nature, certainly up to the point of student teaching. If a student persists in a teaching program against the advice of the Committee and the Dean of the College, he must assume full responsibilities for his decision. However, if the Committee finds that the student has personality characteristics unsuitable for a member of the teaching profession, then the President, upon recommendation of the Committee, may require his or her transfer to a non-teaching program or withdrawal from the College.

- g. Near the mid-point of the student teaching experience the Committee will carefully review the records of students referred to it by the Student Teaching office. At this point the Committee may consult with the student's supervising teacher and others in close contact with his work. The Committee will advise the student teacher as follows: (a) to continue student teaching as planned, or (b) to be reassigned with a possibility that more than the original time may be required, or (c) to withdraw from student teaching for the period and seek admission to student teaching at a later period, or (d) to withdraw from student teaching and seek another vocation.

The student teacher will be an active participant in the evaluation made at this point in his student teaching but the final decision for retention will be made by the Counseling and Screening Committee, subject to review by the Dean of the College.

- h. In order to be recommended for certification the grade on student teaching must be a "C" or better.
- i. The Director of the Division of Teacher Education and the Director of Student Teaching will sign a statement for purposes of recommendation as follows:

"This is to certify that the applicant has good moral character, personality suitable for teaching, and has demonstrated competence in the required laboratory experiences in student teaching."

Student Teaching

Student teaching is required of all students who are enrolled in a program leading to a teacher's certificate.

Throughout their entire period of teaching, the students are closely supervised by skilled teachers who observe their work and instruct them in the methods used. The Director of Student Teaching coordinates the programs, assigns all student teachers to their places, and helps to plan and supervise their work. The College Supervisors have the primary responsibility for supervising the work of the student teachers. Students are given the opportunity to teach in their major area or special field.

Student teachers who live on the campus are assigned to the public schools of Harrisonburg, Anthony-Seeger Campus School, or Rockingham County. Many student teachers live off campus and teach in public schools within a distance of 125 miles.

Collegiate Professional Certificate

The programs of study for teachers lead to the Bachelor's degree and the Collegiate Professional Certificate.

For endorsement of the certificate to teach a specific subject, an average of 2.00 or above in that subject is required. A grade of "C" or higher on student teaching is required for a teacher's certificate.

For information relative to renewal, extension, or reinstatement of certificates, the student should write to the Director, Division of Teacher Education in the State Department of Education at Richmond.

The Accelerated Program

The Degree in Three Plan, by which students may complete a four-year program in three years by taking courses in Summer Sessions and Winter Sessions, is being emphasized at Madison College because of the pressure of increased numbers of students and the desire of many to accomplish their formal education in a shorter time. This accelerated program is new in its emphasis, but not inception, because the College initiated the all-year program in 1929—the first Virginia college to do so.

Placement of Graduates

The College brings its graduates to the attention of prospective employers through the Office of Field Services and Placement.

Graduating students enroll with the placement bureau, fill out appropriate blanks, and receive information and instructions relative to securing positions. Complete records, including the recommendations of several faculty members who are acquainted with the student's work, a report from the supervisor (for students in the teaching program), photographs, and other information regarding the ability, personality, and scholarship of the graduate are kept on file.

The aim of the placement bureau is not only to place new graduates effectively but also to furnish satisfactory placement service to alumni who are qualified for better positions and who desire to change positions or type of work. Placement records are supplemented by additional data from time to time. Copies of these records are available to employers upon request. Each graduate is expected to take the responsibility for filling in the proper blanks for the files and to share the responsibility for securing a suitable position.

Students who desire teaching positions in states other than Virginia must take the responsibility for meeting the requirements for certification in the state in which they are interested.

Employers who seek to employ workers in the fields in which Madison College offers instruction, are invited to state their needs to the Director of Field Services and Placement. The College will arrange interviews between prospective employers and employees.

After helping to place graduates in public school positions, the College assumes a further obligation to follow up these students as they begin their teaching careers. The Director of Field Services and Placement, through personal visits and letters and in other appropriate ways, gives assistance to the beginning teacher on the job. Other important aspects of the plan include the development of better working relationships and understanding between the College and the public schools and bringing factual information from the field which may aid in planning the education of teachers.

The Graduate Program

The Graduate School at Madison College was formally established in 1954, when the College was authorized by the State Board of Education to offer curricula leading to the degrees of *Master of Arts in Education* and *Master of Science in Education*. The graduate program at Madison was approved by the Southern Association of Schools and Colleges in the same year. On October 31, 1960, the State Board of Education authorized the College to offer programs leading to the *Master of Science* degree with majors in Biology and in Mathematics. The *Master of Arts* degree was authorized in other fields by subsequent actions of the State Council of Higher Education.

Correspondence concerning the Graduate Program and requests for the Graduate Catalog and application form should be addressed to the Dean of the College, Box N, Madison College, Harrisonburg, Virginia 22801.



After helping to build bridges in the 1950s and 1960s, the Corps began a major program to build up the waterways of the United States. The Corps of Engineers, which is part of the Department of the Army, has been working on a program to build up the waterways of the United States. The Corps of Engineers, which is part of the Department of the Army, has been working on a program to build up the waterways of the United States. The Corps of Engineers, which is part of the Department of the Army, has been working on a program to build up the waterways of the United States.

The Corps Program

The Corps of Engineers is the largest of the Army's combat arms. It is responsible for the construction and maintenance of the Army's waterways. The Corps of Engineers is the largest of the Army's combat arms. It is responsible for the construction and maintenance of the Army's waterways. The Corps of Engineers is the largest of the Army's combat arms. It is responsible for the construction and maintenance of the Army's waterways.

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Departments and Courses

Course Numbering System

The unit of credit is the semester hour. It is defined as one lecture hour or two laboratory hours per week for one semester.

The symbols within the parentheses following the title of each course indicate the semester in which the course is offered, the number of lecture hours and the number of laboratory hours per week. The numeral I indicates the first semester; II indicates the second semester; I and II indicate a two semester course. I or II means that the course may be offered either semester. The first number after the semicolon indicates the number of hours of classroom work per week; the second number after the semicolon indicates the number of hours of laboratory work per week. The term "Year Course" indicates that both semesters of the course must be completed before credit is allowed for the first semester.

To determine the courses offered for a particular semester, the student should consult the schedule of classes.

Courses numbered 100-199 are intended for *freshmen*

Courses numbered 200-299 are intended for *sophomores*

Courses numbered 300-399 are intended for *juniors*

Courses numbered 400-499 are intended for *seniors*

(The Honors Thesis course required for a degree *with distinction* is numbered 499).

Courses numbered 500-599 are intended for *upper-level undergraduate and graduate students*. Undergraduate students must have the approval of their advisers for these courses.

Students may take as electives only those courses which are planned for students not more than one year removed from them in classification.

DIVISION of the HUMANITIES

DR. LOUIS G. LOCKE, *Director*

Departmental Programs

Art

English

Foreign Languages

French

German

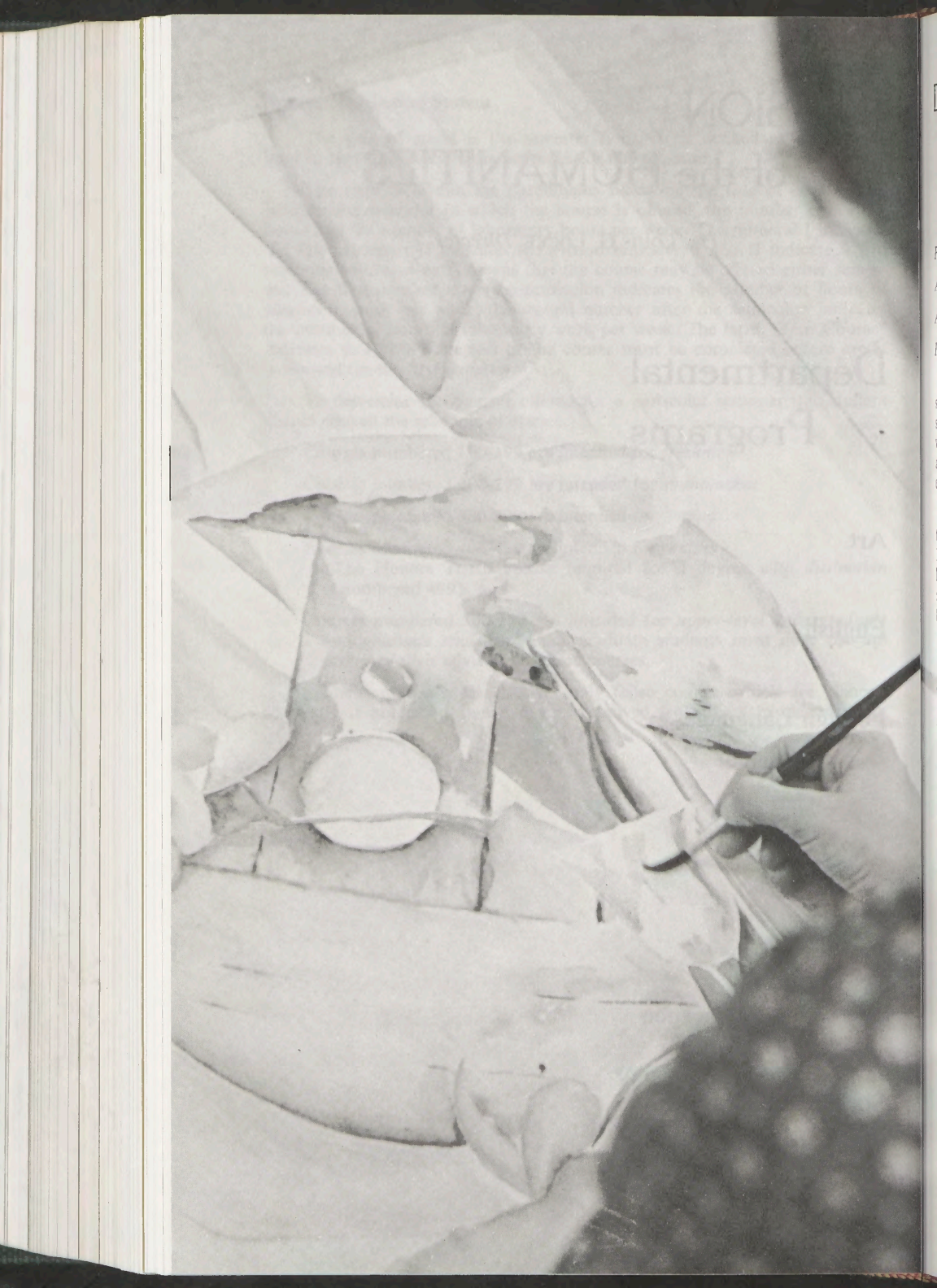
Latin

Spanish

Music

Music Education

Speech and Drama



DEPARTMENT of Art

MR. J. DAVID DILLER, *Head of the Department*

Professor THEODORE

Associate Professor DILLER

Assistant Professors BEER, CALDWELL, COULTER, and GROVE

Instructors BURGESS, SZMAGAJ, and WIESENER

The Department of Art is organized for these purposes: to prepare students to be teachers or supervisors of art on either the elementary or secondary level; to provide a balanced background for talented students who wish to build a foundation for a career and/or advanced study in art; and to combine art with academic studies as a broad basis for general education on the college level.

The minimum requirement for a major in Art is forty-two (42) semester hours including Art 200, subject to the approval of the Head of the Department. A minor includes a minimum of eighteen (18) semester hours, subject to the approval of the Head of the Department. Prerequisites must be observed unless the student can show evidence of equivalent disciplines.

The Art Department reserves the right to retain permanently one work from each student in each class. The disposition of these works will be decided by the art staff. Other works may be held temporarily for use in specific exhibitions. These will be available to owners no later than two years after the lending date.

Students interested in a major in Art should consult the head of the Art Department, 101 Duke Fine Arts Building.

Students seeking teacher certification in secondary education should take the following courses: Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Art 316 (Teaching of Art in the Secondary School), Education 470 (History and Philosophy of Educational Thought), and Education 480 (Directed Teaching) in the senior year.

Students working towards the B.A. degree must meet the foreign language requirement.

Students who wish to be certified to teach in art on the secondary level must satisfy the endorsement requirements prescribed by the Virginia State Board of Education. The minimum semester hours required in each area may be chosen from the courses indicated in parentheses.

- I. Design, Drawing, Painting, Graphics.....12 sem. hrs.
(140, 150, 160, 240, 244, 254, 345, 354, 360, 366, 454, 460)

- II. Sculpture 6 sem. hrs.
(235, 434)
Ceramics and Crafts..... 6 sem. hrs.
(121, 122, 125, 373, 474)
- III. History, Appreciation of Art..... 6 sem. hrs.
(200, 205, 301, 306, 405, 408, 483)

Four-Year Program for a Major in Art

FRESHMAN YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Art 140. Design	0	3
Art 150. Drawing	3	0
Art 200. Art in General Culture.....	0	3
Bio. 110. General Biology	4	0
Eng. 101-102. Reading and Composition.....	3	3
Hist. 233-234. United States History.....	3	3
Basic Studies Requirement in Physical Education.....	1	1
Speech 200. Oral Communication	2	0
Elective	0	3
	<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Art 244. Advanced Design	3	0
Eng. 233-234. Introduction to Literature.....	3	3
Music 200. Music in General Culture.....	3	0
Basic Studies Requirement in Mathematics	3	3
Basic Studies Requirement in Social Science	0	3
Basic Studies Requirement in Physical Education	1	1
Basic Studies Requirement in a Physical Science	0	4
Electives in Art.....	3	3
	<hr/> 16	<hr/> 17

JUNIOR YEAR

Psy. 231-232. General Psychology or Psy. 233-234. Human Growth and Development.....	3	3
Hth. 200. Personal and Community Health.....	2	0
Basic Studies Requirement in Social Science.....	3	0
Electives in Art.....	6	6
Electives	3	6
	<hr/> 17	<hr/> 15

SENIOR YEAR

Electives in Art.....	6	6
Electives	10	9
	<hr/> 16	<hr/> 15

Four-Year Program for a Major in Art Qualifying for the Secondary Collegiate Professional Certificate

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 140. Design	3	0	
Art 150. Drawing	0	3	
Art 200. Art in General Culture.....	0	3	
Eng. 101-102. Reading and Composition	3	3	
Hist. 233-234. United States History.....	3	3	
Musc. 200. Music in General Culture.....	3	0	
Speech 200. Oral Communication	0	2	
Basic Studies Requirement in Physical Education.....	1	1	
Elective	3	0	
	<hr/>	<hr/>	
	16	15	

SOPHOMORE YEAR

Art 244. Advanced Design	0	3	
Eng. 233-234. Introduction to Literature.....	3	3	
Bio. 110. General Biology	4	0	
Psy. 233-234. Human Growth and Development.....	3	3	
Basic Studies Requirement in Mathematics	3	3	
Basic Studies Requirement in Physical Education	1	1	
Basic Studies Requirement in a Physical Science	0	4	
Elective	3	0	
	<hr/>	<hr/>	
	17	17	

JUNIOR YEAR

Hth. 200. Personal and Community Health.....	2	0	
Ed. 360. Foundations of Curriculum	3	0	
Art 316. Materials and Methods in Teaching Art in the Secondary School	0	4	
Basic Studies Requirement in Social Science.....	3	3	
Electives	7	9	
	<hr/>	<hr/>	
	15	16	

SENIOR YEAR

Ed. 480. Directed Teaching	0	8	
Ed. 470. History and Philosophy of Educational Thought..	0	3	
Electives	15	6	
	<hr/>	<hr/>	
	15	17	

Description of Courses

ART 121. *Weaving and Textile Design* (II; 0, 6), 3 credits.

Hand weaving which affords experience in hangings, drapery, upholstery and suiting with emphasis on color and textures; and designing patterns for fabrics by silk screen and other methods. The weaving includes making warps and dressing looms, various techniques in two- and four-harness weaving on foot power and table looms.

ART 122. *Metal and Jewelry* (II; 0, 6), 3 credits.

An exploration of techniques necessary to execute well-designed objects in metals including forming, repousse, stone setting, metal finishing, enameling and centrifugal casting.

ART 125. *Ceramic Crafts* (II; 0, 6), 3 credits.

Introduction to ceramic hand-building processes, use of the potter's wheel, and glazing; exploration of techniques in glass and mosaics.

ART 140. *Design* (I or II; 1, 4), 3 credits.

Basic problems in two- and three-dimensional design in a variety of materials; study of the organic quality of materials in relation to design potentials; analysis of the visual elements of art.

ART 150. *Drawing* (I or II; 1, 4), 3 credits.

An introductory course composed of problems in landscape, perspective, figure and still-life in several media.

ART 160. *Introductory Painting* (I or II; 0, 6), 3 credits.

Oil painting for students who have had some experience in drawing and design. Registration by permission of the instructor.

ART 200. *Art in General Culture* (I or II; 3, 0), 3 credits.

An exploratory course which aims to develop a non-technical, general cultural understanding of the space arts, such as architecture, painting, sculpture, and industrial design. Emphasis is on the contemporary.

ART 205. *Art History: Pre-Renaissance* (I; 3, 0), 3 credits.

A study of sculpture, architecture, painting, and other space arts from prehistoric times to the Renaissance.

ART 235. *Sculpture* (I or II; 0, 6), 3 credits.

Problems in three-dimensional form using traditional and modern techniques. Processes of modeling in clay, mold making, casting, carving in wood and stone, and welded metal sculpture are explored. *Prerequisites:* Art 140, Art 200.

ART 240. *Interior Design* (II; 2, 2), 3 credits.

A creative approach to furnishing living quarters with emphasis on function, character and nature of materials. Survey of furniture periods with architectural setting; emphasis on the contemporary. *Prerequisite: Art 200.*

ART 244. *Advanced Design* (I or II; 1, 4), 3 credits.

A continuation of Art 140 emphasizing design as it applies to painting and allied two-dimensional art forms. Significant art works will be analyzed according to design principles. *Prerequisites: Art 140, Art 150.*

ART 254. *Advanced Drawing* (II; 1, 4), 3 credits.

A continuation of Art 150 with emphasis on composition, life drawing, and the expressive possibilities of a variety of media including ink, pencil, conte, charcoal, and experimental materials. *Prerequisite: Art 150.*

ART 255. *Photography* (I or II; 0, 6), 3 credits.

Creative design through the use of photography with emphasis on understanding materials and techniques. *Prerequisite: Art 140 or permission of instructor.*

(Student must provide a fully manual camera for 35mm, 2¼, 620, or 127 film size; and a light meter which may be built into the camera or separate. Additional costs for materials in this class will be approximately \$20.00.)

ART 301. *Art History: Far East* (1; 3,0), 3 credits.

A survey of East Asian Art from prehistoric times to nineteenth century colonialism. Emphasis is on the areas of major production: India, China, and Japan, with some attention to such centers as Cambodia, Siam, and Korea. Areas of lesser influence will be included in readings.

ART 306. *Art History: Renaissance* (II; 3,0), 3 credits.

A study of the space arts in Occidental cultures during the growth and decline of the respective Renaissance periods.

ART 310. *Art Activities in the Elementary School* (I or II; 1, 4), 3 credits.

A study of the aims and philosophy of art education in the elementary school with emphasis on child growth and development through art. Experience with art techniques and materials suitable to children from nursery school through grade 6 with emphasis on appropriate motivational and teaching methods. *Prerequisite: Art 200 and Psy. 233-234.*

ART 314. *Arts and Crafts for the Exceptional Child* (I or II; 1, 4), 3 credits.

A study of art activities and materials which stimulate thought processes and development from one stage of growth to another, such as from manipu-

lative to pre-symbolic. Analysis of successful teaching methods. Investigation of the effect of art instruction upon the student's behavior in his class, in other subjects and in total school behavior. *Prerequisites: Art 200; Psy. 233-234.*

ART 316. *Materials and Methods in Teaching Art in the Secondary School* (II; 2, 2), 4 credits.

Problems in the teaching and administration of art programs on the secondary level. *Prerequisites: Twelve (12) semester hours of Art; Psy. 233-234.*

ART 345. *Advertising Art and Illustration* (I; 1, 4), 3 credits.

Practice in lettering forms, advertising layout, and illustration. Design problems related to trademarks, covers, and package design. Experience with tools such as the airbrush and ruling pen. Types of visual communication and commercial printing techniques are studied. *Prerequisites: Art 140, Art 150, Art 200.*

ART 354. *Printmaking* (I; 0, 6), 3 credits.

Studio practice in the hand processes of color woodcut, metal engraving, etching, aquatint, and serigraphy (silk screen). Lithographic techniques and the work of famous printmakers are studied. *Prerequisites: Art 140, Art 150, Art 244.*

ART 360. *Painting* (I or II; 0, 6), 3 credits.

Oil painting and other media with creative and esthetic considerations of picture structure. *Prerequisites: Art 150, Art 244.*

ART 366. *Watercolor* (II; 1, 4), 3 credits.

Study of and practice in transparent and opaque watercolor techniques. *Prerequisites: Art 150, Art 244.*

ART 373. *Ceramics* (I or II; 0, 6), 3 credits.

Studio practice in forming, firing, and glazing ceramic ware. Wheel-thrown pottery will be emphasized. Fundamentals of glaze composition will be given in lectures. *Prerequisites: Art 140, Art 200.*

ART 405. *Art History: Modern Art* (I; 3, 0), 3 credits.

A survey of art forms and philosophy from the middle of the nineteenth century to the present.

ART 408. *Art History: Arts of the United States* (II; 0, 3), 3 credits.

Study of the arts of the United States beginning with that of the American Indians and continuing to the present. Particular attention is given to the sources for these arts and their relationship to the social and economic situation.

ART 434. *Advanced Sculpture* (II; 0, 6), 3 credits.

Problems in free standing and relief sculpture with an investigation of metal casting techniques in bronze and other metals. Use of direct metal processes. Constructive approaches to form are also explored. *Prerequisites: Art 235, Art 244.*

ART 454. *Advanced Printmaking* (I; 0, 6), 3 credits.

Advanced problems in any printmaking process selected by the student with the advice of the instructor. *Prerequisite: Art 354.*

ART 460. *Painting* (I or II; 0, 6), 3 credits.

Advanced problems in media selected by the student with the advice of the instructor. *Prerequisite: Art 360.*

ART 474. *Advanced Ceramics* (I; 0, 6), 3 credits.

Problems in ceramic design with increased attention to the chemical composition of glazes and clays. *Prerequisite: Art 373.*

ART 483. *Esthetics* (I; 3, 0), 3 credits.

Readings and discussions in the persistent philosophical problems of the arts, centering on consideration of the work of art, the artist, and the audience.

ART 501. *Workshops in Art* (Summer only. Each area three hours daily for two weeks), 1-2 credits.

Concentrated workshops, accompanied by lecture and discussion periods, selected from such areas as painting, sculpture, printmaking, ceramics, art education, photography, and crafts. This course is particularly designed to update and strengthen art skills of practicing teachers.

ART 510. *Arts, the Child and the School* (I or II; 1, 4), 3 credits.

Art and its relationship to the needs of the pre-school and school child. The development of the child through the creative process is examined through laboratory work, discussions and readings. The purpose is to improve art teaching in the schools. *Prerequisite: Art 310 (or equivalent).*

ART 515. *Studio Problems in Art Education* (I or II; 0, 6-12), 3-6 credits.

Specific problem areas, according to individual needs, are investigated, discussed and evaluated.

ART 524. *Advanced Weaving and Textile Design* (I or II; 0, 6-8), 3-4 credits.

Studio projects in handcrafted textile arts. Ordinarily the emphasis will be on either weaving or, alternatively, methods of textile decoration. *Prerequisite: Art 121 (or equivalent).*

ART 526. *Advanced Jewelry and Metalwork* (I or II; 0, 6-8), 3-4 credits.

Studio projects in the metal arts. The student may elect to widen his experience in these craft areas, or to specialize in one or two of them. Emphasis is on high quality of craftsmanship and design. *Prerequisite: Art 122 (or equivalent).*

ART 530. *Sculpture* (I or II; 0, 6-12), 3-6 credits.

Advanced sculptural projects with choices from a wide range of materials and techniques including welding, casting, wood and metal construction, wood and stone carving, and others. *Prerequisite: Art 235 (or equivalent).*

ART 550. *Graphics* (I or II; 0, 6-8), 3-4 credits.

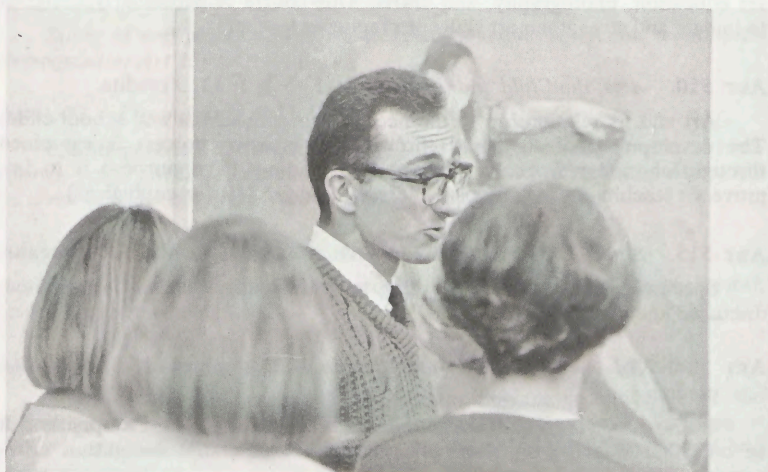
Problems in printmaking chosen from intaglio processes such as etching and engraving, and from woodcut, serigraphy, and lithography. *Prerequisite: Art 354 (or equivalent).*

ART 560. *Drawing and Painting* (I or II; 0, 6-12), 3-6 credits.

Studio work aimed towards the development of the student's individual expressive means. The student may choose from a wide variety of media. *Prerequisites: Art 244, Art 360 (or equivalent).*

ART 570. *Advanced Ceramic Design* (I or II; 0, 6-12), 3-6 credits.

Individual development in the techniques and processes of ceramic design, with emphasis upon quality as evidenced in form, color and decoration. *Prerequisite: Art 373 (or equivalent).*



DEPARTMENT of English

DR. JAMES E. POINDEXTER, *Head of the Department*

Professors ADAMS, CURTIS, LOCKE, MAHLER, McMURRAY, and J. POINDEXTER

Associate Professors CALLAHAN, CAVANAUGH, LEIGH, SAWHILL, SHAFER, and WILKINS

Assistant Professors ATKINSON, BENNETT, FARRAR, FULTZ, K. IKENBERRY, MCCLUNG, McNALLIE, MORLEY-MOWER, PRICE, STEED, SWINK, TRENT, and ZEISS

Instructors CAREY and ROGERS

The program offered by the Department of English is designed to prepare students to enter graduate study; to prepare them for the teaching profession; and to serve as basic preparation for many professions in which skillful use of language is important, for example, law, publishing, freelance writing, creative writing, journalism, public relations, broadcasting, government, advertising, and business. It also offers to the student whose professional or vocational interests lie elsewhere an appreciation of the great literary heritage of Western Civilization, with particular emphasis upon British and American literatures, and through the humanistic study of these masterpieces a better understanding of themselves.

The minimum requirement for a major in English is thirty (30) semester hours beyond the Basic Studies requirements including the following required courses: English 247-248 (Survey of American Literature), English 369 (Shakespeare), English 420 (Modern English Grammar), and English 460 (Seminar in English Literature). The requirement in American Literature (Eng. 247-248) may be satisfied by substituting either English 440 (American Romanticism, 1820-1865) or English 450 (American Realism and Naturalism to 1914) provided that the student passes a general examination in American Literature administered by the Department of English. In order to insure proper distribution, one course must be taken from each of the following groups of courses: A. English 310 (Chaucer) or English 426 (Milton); B. English 320 (Literature of the Augustan Age) or English 340 (Romantic Poetry) or English 350 (Victorian Literature); C. English 390 (Seventeenth-Century Literature); English 560 (Non-dramatic Literature of the Elizabethan Period) or English 590 (Studies in Old English); D. English 360 (Studies in Comparative Literature) or English 520 (The Practice of Literary Criticism).

The minimum requirement for a minor in English is eighteen (18) semester hours including twelve (12) semester hours of Basic Studies requirements in English and three (3) semester hours of required work in

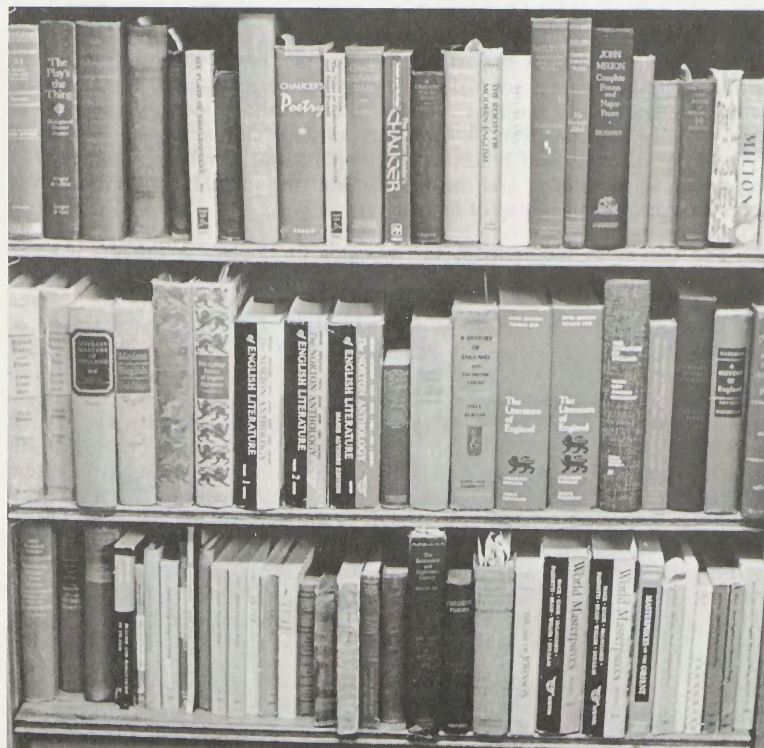
English 235-236 (Survey of English Literature) or English 247-248 (Survey of American Literature). It should be noted that a minor in English is not sufficient to meet the certification requirements for the Collegiate Professional Certificate.

Speech 319 (Phonetics) and Philosophy 360 (Philosophy and Modern Literature) may be counted as English electives.

Students seeking teacher certification in secondary education should take the following courses: Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum) Education 370 (Methods and Materials in Teaching in the Secondary School), Education 470 (History and Philosophy of Educational Thought), and Education 480 (Directed Teaching) in the senior year.

The program outlined below provides enough hours of electives to enable a student working for the B.A. degree to meet the requirement of a maximum of twelve hours of a foreign language. The Department of English recommends that all English majors work toward the B.A. degree.

Students interested in programs in the Department of English should consult Dr. James E. Poindexter, B1 Keezell Hall.



Four-Year Program for a Major in English Qualifying for the Secondary Collegiate Professional Certificate

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
FRESHMAN YEAR			
Bio. 110. General Biology	4	0	
Eng. 101-102. Reading and Composition.....	3	3	
Hist. 233-234. United States History.....	3	3	
Math. 107-108. Fundamentals of Mathematics (or Math. 125-126. Introduction to College Mathematics).....	3	3	
Spch. 200. Oral Communication.....	0	2	
Basic Studies Requirement in Physical Education.....	1	1	
Elective	3	3	
	17	15	
SOPHOMORE YEAR			
Art 200. Art in General Culture.....	0	3	
Eng. 233-234. Introduction to Literature.....	3	3	
Eng. 247-248. Survey of American Literature (or Eng. 440. American Romanticism or Eng. 450. American Realism and Naturalism to 1914).....	3	3	
Mus. 200. Music in General Culture.....	3	0	
Psy. 233-234. Human Growth and Development.....	3	3	
Basic Studies Requirement in Physical Education	1	1	
Basic Studies Requirement in a Physical Science.....	4	0	
Elective	0	3	
	17	16	
JUNIOR YEAR			
Ed. 360. Foundations of Curriculum.....	3	0	
Eng. 310. Chaucer (or Eng. 426. Milton).....	0	3	
Eng. 369. Shakespeare	3	0	
Eng. 380. Literature of the English Renaissance (or Eng. 390. Seventeenth-Century Literature or Eng. 590. Stu- dies in Old English).....	3	0	
Eng. 420. Modern English Grammar.....	3	0	
Hth. 200. Personal and Community Health.....	0	2	
Basic Studies Requirement in Social Science.....	3	3	
Electives	0	7	
	15	15	
SENIOR YEAR			
Ed. 370. Methods and Materials.....	3	0	
Ed. 480. Directed Teaching	0	8	
Ed. 470. History and Philosophy of Educational Thought.	0	3	
Eng. 320. Literature of the Augustan Age (or Eng. 340. Romantic Poetry or Eng. 350. Victorian Literature)..	3	0	
Eng. 460. Seminar in English Literature.....	3	0	
Eng. 520. The Practice of Literary Criticism (or Eng. 360. Studies in Comparative Literature).....	3	0	
Electives	5	5	
	17	16	

Four-Year Program for a Major in English

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
FRESHMAN YEAR		
Bio. 110. General Biology	4	0
Eng. 101-102. Reading and Composition.....	3	3
Hist. 233-234. United States History.....	3	3
Math. 107-108. Fundamentals of Mathematics (or Math. 125-126. Introduction to College Mathematics).....	3	3
Spch. 200. Oral Communication	0	2
Basic Studies Requirement in Physical Education.....	1	1
Elective	3	3
	<hr/> 17	<hr/> 15
SOPHOMORE YEAR		
Art 200. Art in General Culture.....	0	3
Eng. 233-234. Introduction to Literature.....	3	3
Eng. 247-248. Survey of American Literature (or Eng. 440. American Romanticism or Eng. 450. American Realism and Naturalism to 1914).....	3	3
Mus. 200. Music in General Culture.....	3	0
Psy. 233-234. Human Growth and Development (or Psy. 231-232. General Psychology).....	3	3
Basic Studies Requirement in Physical Education	1	1
Basic Studies Requirement in a Physical Science	4	0
Elective	0	3
	<hr/> 17	<hr/> 16
JUNIOR YEAR		
Eng. 310. Chaucer (or Eng. 426. Milton).....	0	3
Eng. 369. Shakespeare	3	0
Eng. 380. Literature of the English Renaissance (or Eng. 390. Seventeenth-Century Literature or Eng. 590. Stu- dies in Old English).....	3	0
Eng. 420. Modern English Grammar	3	0
Hth. 200. Personal and Community Health.....	0	2
Basic Studies Requirement in Social Science.....	3	3
Electives	3	9
	<hr/> 15	<hr/> 17
SENIOR YEAR		
Eng. 320. Literature of the Augustan Age (or Eng. 340. Romantic Poetry or Eng. 350. Victorian Literature)...	3	0
Eng. 460. Seminar in English Literature.....	3	0
Eng. 520. The Practice of Literary Criticism (or Eng. 360. Studies in Comparative Literature).....	0	3
Electives	10	12
	<hr/> 16	<hr/> 15

Description of Courses

ENGLISH 101-102. *Reading and Composition* (I & II; 3, 0), 3 credits each semester. Year Course.

Reviews the principles of grammar and usage in oral and written English, directs reading and analysis of selected examples of prose, and requires frequent compositions with attention to logical relation and arrangement of ideas, and to readability and interest. Procedures are introduced for the effective use of the library and for the preparation of a research paper. (A student must pass English 101 before he is eligible to take English 102. *Both of these courses are prerequisite for all advanced courses in English.*)

ENGLISH 109 (First Year), 209 (Second Year), 309 (Third Year)—*Applied Newswriting*—(I & II; 1, 0), 1 credit. Year Course.

Supervised exercises in writing news and feature copy for *THE BREEZE*. Instruction reviews current practices in newspaper writing, layout, and make-up.

ENGLISH 233-234. *Introduction to Literature* (I & II; 3, 0), 3 credits each semester.

An introduction to literature through the study of a limited number of carefully selected examples of poetry, drama, and fiction.

ENGLISH 235-236. *Survey of English Literature* (I & II; 3, 0), 3 credits each semester.

A general survey with readings, lectures, discussions, and reports, presented chronologically from *Beowulf* to modern times. English 236 will begin at the middle of the eighteenth century.

ENGLISH 240. *Mythology* (I & II; 2, 0), 2 credits.

An examination of classical mythology and traditional myths in relation to English and American Literature.

ENGLISH 247-248. *Survey of American Literature* (I & II; 3, 0), 3 credits each semester.

A survey presented historically and critically through lectures, outside readings, research papers, and discussions. The first semester extends through the American Renaissance; the second semester concludes with Hemingway and Faulkner.

ENGLISH 305. *Literature of the Old Testament* (I; 3,0), 3 credits.

A study of the history of the Hebrew peoples and the leaders of Israel central to the Bible as a background to the theology of the Old Testament in conjunction with a critical analysis of Old Testament literature.

ENGLISH 306. *Literature of the New Testament* (II; 3,0), 3 credits.

A study of the Gospels and Epistles of the New Testament including biblical criticism, historical background and basic theology.

ENGLISH 310. *Chaucer* (II; 3, 0), 3 credits.

A study of *The Canterbury Tales*, with an introduction to *Troilus* and to Chaucer's minor poems. Some attention will also be given the literary work of Chaucer's contemporaries.

ENGLISH 314. *Introduction to the Mass Media* (I; 3, 0), 3 credits.

A survey and evaluation of the mass media, with emphasis upon their impact on life and expression in America today. Primarily for students interested in journalism.

ENGLISH 315. *News Writing* (I; 3, 0), 3 credits.

An examination of the functions of modern newspaper procedure with practice in gathering news and in writing various types of newspaper articles.

Suggested as a basic course for advisers of high-school publications and for members of the College newspaper staff.

ENGLISH 316. *News Editing* (II; 3, 0), 3 credits.

The fundamentals of composing room, proof reading, circulation, business office, and photographic laboratory; headlining, make-up, rewriting, and other editorial functions.

ENGLISH 317-318. *World Literature* (I & II; 3, 0), 3 credits each semester.

A study of the major literary masterpieces of the Western World from the time of Homer to the present. Literature is examined in relation to the other arts. Foreign works are read in English translation.

ENGLISH 320. *Literature of the Augustan Age* (II; 3, 0), 3 credits.

A study of English literature from 1660 to 1740 with special emphasis upon Dryden, Swift, and Pope. Attention to critical theories, intellectual and cultural movements, and literary forms.

ENGLISH 322. *Survey of Modern Drama* (II; 3, 0), 3 credits.

A chronological treatment of masterpieces of drama from Ibsen to the present. Some attention is paid to continental playwrights.

ENGLISH 330. *Imaginative Writing* (I; 3, 0), 3 credits.

Intensive exercises in the writing of lyric poems or the short story. Attention to selected examples of the genres by contemporary authors.

ENGLISH 331. *Imaginative Writing* (II; 3, 0), 3 credits.

Intensive exercise in the writing of lyric poems or the short story. Attention to selected examples of the genres by contemporary authors. This course is a sequel to English 330.

ENGLISH 340. *Romantic Poetry* (I; 3, 0), 3 credits.

A study of English Literature from 1770 to 1832, with chief emphasis upon the Pre-Romantic Poets, Wordsworth, Coleridge, Shelley, Keats, and Byron. Attention is given to critical theories, intellectual and cultural movements, and poetic forms.

ENGLISH 350. *Victorian Literature* (II; 3, 0), 3 credits.

A conspectus of life during the Victorian Age in England as revealed through its literature, omitting the novel.

ENGLISH 360. *Studies in Comparative Literature* (I; 3, 0), 3 credits.

Studies in Greek, Roman, and European writers, including Homer, Virgil, Ovid, Horace, the *Bible*, Dante, Cervantes, Goethe, with special reference to their influence on literature in English.

ENGLISH 369. *Shakespeare* (I or II; 3, 0), 3 credits.

The best of Shakespeare's comedies, histories, and tragedies, with emphasis on dramatic technique and the Elizabethan stage.

ENGLISH 372. *English Linguistics* (II; 3, 0), 3 credits.

A course designed as an introduction to the basic ideas in current English linguistics with special instruction in the "New English" procedures.

ENGLISH 390. *Seventeenth-Century Literature* (I; 3, 0), 3 credits.

Study of the poetry and prose of seventeenth-century writers (excluding Milton) such as Donne, Burton, Herbert, Walton, Browne, Herrick, Marvell.

ENGLISH 410. *History and Development of the English Language* (II; 3, 0), 3 credits.

An introduction to the historical development of the English language from the earliest period to the twentieth century. In the course of this historical survey, students examine the principal linguistic changes and other major factors that influenced the development of English phonology, morphology, syntax, and vocabulary.

ENGLISH 418. *Contemporary Poetry* (II; 3, 0), 3 credits.

A study of British and American poetry since 1900.

ENGLISH 420. *Modern English Grammar* (I or II; 3, 0), 3 credits.

Through lectures, readings, and discussions, students analyze the structure of modern English. The analysis is guided by current linguistic concepts, and modern methodology is emphasized. By means of specific problems, the traditional grammar is compared with more recent approaches. A few of the problems of teaching English at the primary and secondary levels

are examined in the light of modern practices. (Required of all students majoring in English and suggested for those who wish to extend their knowledge of grammar).

ENGLISH 423. *The British Novel to 1920* (I or II; 3, 0), 3 credits.

A survey of the evolution of the British novel from the beginning with an examination of major works from Fielding to Conrad.

ENGLISH 425. *The American Novel to 1930* (I or II; 3, 0), 3 credits.

A study of the development of the American novel with an examination of some of the major works from Hawthorne to Henry James.

ENGLISH 426. *Milton* (I; 3, 0), 3 credits.

The major prose and poetical works of John Milton are studied in the context of his times, with special emphasis on *Paradise Lost*.

ENGLISH 440. *American Romanticism, 1820-1865* (I; 3, 0), 3 credits.

A study of selected works of such major figures as Emerson, Thoreau, Hawthorne, Poe, Melville, Whitman, and others.

ENGLISH 450. *American Realism and Naturalism to 1914* (II; 3, 0), 3 credits.

A study of selected works of such major figures as Dickinson, Twain, Howells, James, Crane, Norris, Dreiser, and others.

ENGLISH 460. *Seminar in English Literature* (I or II; 3, 0), 3 credits.

A review of English literature designed to emphasize relationships of authors and periods studied in elective courses, and to give the student an opportunity, through individual oral and written reports, and class discussion, to study those works and movements with which he is not familiar. (Restricted to senior students majoring in English).

ENGLISH 490. *Special Studies in English* (I or II; 1-3, 0), 1-3 credits.

Designed to give capable and interested students in English an opportunity to do independent study under faculty supervision. The student may elect work in (1) a literary type, period, or author; (2) creative writing. Enrollment in English 490 is generally limited to students majoring in English who have a high academic standing. (Permission to enroll in English 490 must be secured from the head of the department).

ENGLISH 499. *Honors* (I & II; 3, 0), 6 credits. Year Course.

ENGLISH 501. *Growth and Structure of the English Language* (II; 3, 0), 3 credits.

An introduction to the history of the English language with attention to the changing forms of speech as reflected in morphology, phonology, syntax, and semantics. Reading and research in special phases of historical and descriptive grammar.

ENGLISH 516. *Bibliography and Methods of Research* (I; 3, 0), 3 credits.

An introduction to scholarly materials, procedures, and techniques, including scholarly writing.

ENGLISH 520. *The Practice of Literary Criticism* (II; 3, 0), 3 credits.

The history and theories of literary criticism are given brief attention. The major emphasis of the course, however, is upon critical examination and analysis, both oral and written, of representative poems, short stories, and dramas. Students are given ample opportunity to practice literary criticism.

ENGLISH 525. *The Modern British and American Novel* (I or II; 3, 0), 3 credits.

This course will deal with selected British novelists after 1920 and with American novelists after 1930. Some attention will be given to writers who have emerged during the 50's and 60's.

ENGLISH 531. *Studies in American Romanticism* (I or II; 3, 0), 3 credits.

A concentrated examination of selected authors such as Poe, Hawthorne, Emerson, Thoreau, Melville, and Whitman.

ENGLISH 532. *Studies in American Realism* (I or II; 3, 0), 3 credits.

A concentrated examination of such authors as Mark Twain, Howells, Stephen Crane, and Henry James.

ENGLISH 550. *Modern Drama* (II; 3, 0), 3 credits.

A study of the representative plays of modern and contemporary dramatists, beginning with Ibsen, Shaw and O'Neill. Wide reading in the works of the chief contemporary dramatists will be required.

ENGLISH 560. *Non-Dramatic Literature of the Elizabethan Period* (II; 3, 0), 3 credits.

The major non-dramatic literary expressions of the English Renaissance from the rise of humanism to Donne will be studied.

ENGLISH 572. *Contemporary Approaches to English Linguistics*. (Summer only, first four weeks.) 3 credits.

A course designed for teachers who desire to familiarize themselves with the basic ideas and procedures in the various approaches to the "New English." Special attention is paid to the utility of these approaches in the classroom.

ENGLISH 590. *Studies in Old English* (II; 3, 0), 3 credits.

The Old English language with readings in selected poetry and prose of the period.

Philosophy

PHILOSOPHY 240. *Introduction to Philosophy* (I or II; 3, 0), 3 credits.

This course seeks to acquaint students with both the history and the characteristic problems of philosophical inquiry. Special attention is given to the nature of philosophical statements as such, in their historical origin, and to the nature of the questions they seek to answer. Important concepts in the development of Western thought are examined in their bearing on ethics, religion, science, and art.

PHILOSOPHY 320. *Logic* (II; 3, 0), 3 credits.

A critical examination of the formal principles of sound reasoning.

PHILOSOPHY 330. *Ethics* (I; 3, 0), 3 credits.

The nature of ethical discourse, and an examination of selected ethical problems posed in philosophical literature from Plato to the present. *Prerequisite:* Phil. 240, or permission of the instructor.

PHILOSOPHY 340. *Modern Philosophy* (II; 3, 0), 3 credits.

An examination of the most important philosophical tendencies since the Enlightenment, with special emphasis upon logical analysis and existentialism in the twentieth century. *Prerequisite:* Phil. 240, or permission of the instructor.

PHILOSOPHY 350. *Philosophy of Religion* (I; 3, 0), 3 credits.

A systematic examination of the foundations of religious discourse, with extensive reading in the contemporary literature of philosophical theology and particular emphasis on the impact of contemporary thought on religious knowledge. *Prerequisite:* Phil. 240, or permission of the instructor.

PHILOSOPHY 360. *Philosophy and Modern Literature* (II; 3, 0), 3 credits.

In this course, philosophical problems are arrived at inductively through a detailed study of contemporary literary works. Authors treated include Ionesco, Camus, Sartre, Marcel, Huxley, Eliot, Barth, and others. *May be counted toward a major in English.*

PHILOSOPHY 370. *Religions of the World* (I; 3, 0), 3 credits.

A philosophical investigation of the world's major religions, including Christianity, with incidental references to such minor religions as Confucianism, Taoism, and Jainism. Attention will be given to the origin, history, mythology, and doctrines of the various religions.

PHILOSOPHY 420. *Studies in Classics of Philosophy* (II; 3, 0), 3 credits.

Reading and discussion of the chief writings of one or two of the following philosophers: Plato, Aristotle, Aquinas, Descartes, Hume, Kant, Kierkegaard, and Wittgenstein. *Prerequisite:* Phil. 240, or permission of the instructor.

DEPARTMENT

of Foreign Languages

DR. MARGARETE W. RAUCH, *Head, Department of Foreign Languages*

Professors CONIS and RAUCH

Associate Professor STEWART

Assistant Professors ALIOTTI, BURKE, COHEN, KARGE, E. NEATROUR, and PERLMAN

Instructor BESSAC

The Department of Foreign Languages offers programs designed (1) to teach the student to understand and to speak a language with facility, to develop skill in reading and writing, and to provide an acquaintance with foreign literatures and an appreciation of foreign cultures; (2) to prepare students for the teaching profession, government work, international trade and research leading to advanced degrees. Programs are offered in French, German, Latin, Russian, and Spanish. Majors are offered in French, German, Latin, and Spanish. Minors are offered in all five languages.

The minimum requirement for a major in a foreign language is twenty-four (24) semester hours beyond the elementary level. The distribution in modern foreign languages is as follows: Fifteen (15) semester hours in conversation, composition, diction, and grammar; three (3) semester hours in civilization; six (6) semester hours in literature. In Latin the twenty-four (24) semester hours are taken in sequence as offered. Three additional semester hours in "Teaching of Foreign Languages" (F.L. 350) are required for majors and minors who plan to teach a foreign language. A student majoring in one foreign language must also earn at least twelve (12) semester hours of credit in a second foreign language.

Students seeking teacher certification in secondary education should take the following courses: Psychology 233-234 (Human Growth and Development)—sophomore year; Education 360 (Foundations of Curriculum)—junior year; Education 370 (Methods and Materials in Teaching in the Secondary School)—senior year, first semester; Education 470 (History and Philosophy of Educational Thought), and Education 480 (Directed Teaching)—second semester of the senior year.

A minor in a foreign language will consist of eighteen (18) semester hours in sequence. However, 18 semester hours of credits will not be sufficient to meet the requirements for the Collegiate Professional Certificate.

A concentration in a foreign language in Elementary Education consists of eighteen (18) semester hours in one language and three (3) semester hours in "Teaching of Foreign Languages" (F.L. 350). Placement tests are given to those students presenting two or more years of a foreign language at the secondary school level. Final decision on advanced placement rests with the Department of Foreign Languages.

Students interested in a program offered in the Department of Foreign Languages should consult Dr. Margarete Rauch, 1 Keezell Hall.

Four-Year Program for a Major in French

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	3	0	
Eng. 101-102. Reading and Composition.....	3	3	
Fr. 101-102. Elementary French (or Fr. 231-232 Intermediate French or Fr. 250. French Conversation and Advanced Composition and Fr. 308. Introduction to French Civilization).....	3-4	3-4	
Hist. 233-234. United States History.....	0	3	
Math. 107-108. Fundamentals of Mathematics.....	3	3	
Mus. 200. Music in General Culture.....	0	3	
Basic Studies Requirement in Physical Education.....	1	1	
		<hr/> 16(17)	<hr/> 16(17)

SOPHOMORE YEAR

Bio. 110. General Biology	4	0	
Eng. 233-234. Introduction to Literature.....	3	3	
Fr. 231-232. Intermediate French (or Fr. 250 and Fr. 308 or Fr. 315. Advanced French Diction and Conversation and Fr. 320. Advanced French Grammar)	3	3	
Basic Studies Requirement in Physical Education.....	1	1	
Basic Studies Requirement in a Physical Science.....	0	4	
*Psy. 231-232. General Psychology	3	3	
Elective in Foreign Language.....	3	3	
		<hr/> 17	<hr/> 17

JUNIOR YEAR

Fr. 315. Advanced French Diction and Conversation (or Fr. 405. French Romantic Movement or Fr. 415. French Classical Theatre or Fr. 417. French Literature of the Eighteenth Century).....	3	0	
Fr. 308. Introduction to French Civilization (or Fr. 320 or Fr. 406. The French Realistic Movement or Fr. 426. French Literature of the Twentieth Century or Fr. 436. Selected Readings from French Literature)	0	3	
Hth. 200. Personal and Community Health.....	2	0	
Basic Studies Requirement in Social Science.....	3	3	
Spch. 200. Oral Communication	0	2	
Elective in Foreign Language.....	3	3	
*Electives	6	6	
		<hr/> 17	<hr/> 17

*See first page of Foreign Language section for required courses in the Four-Year Program for a Major in Secondary French Education.

SENIOR YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Fr. 405. French Romantic Movement (or Fr. 415 or Fr. 417)	3	0
Fr. 406. French Realistic Movement (or Fr. 426 or Fr. 436)	0	3
*Electives	11	11
	<hr/> 14	<hr/> 14



*See first page of Foreign Language section for required courses in the Four-Year Program for a Major in Secondary French Education.

Four-Year Program for a Major in German

FRESHMAN YEAR

<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	3	0
Eng. 101-102. Reading and Composition.....	3	3
Ger. 101-102. Elementary German (or Ger. 231-232 Intermediate German)	3-4	3-4
Hist. 233-234. United States History.....	3	3
Math. 107-108. Fundamentals of Mathematics.....	3	3
Mus. 200. Music in General Culture.....	0	3
Basic Studies Requirement in Physical Education.....	1	1
	<hr/> 16(17)	<hr/> 16(17)

SOPHOMORE YEAR

Bio. 110. General Biology	4	0
Eng. 233-234. Introduction to Literature.....	3	3
Ger. 231-232. Intermediate German (or Ger. 305 German Conversation and Advanced Composition and Ger. 308 Introduction to German Civilization) ..	3	3
Basic Studies Requirement in Physical Education	1	1
Basic Studies Requirement in a Physical Science	0	4
*Psy. 231-232. General Psychology	3	3
Elective in Foreign Language.....	3	3
	<hr/> 17	<hr/> 17

JUNIOR YEAR

Ger. 305. German Conversation and Advanced Composition (or Ger. 405. Age of German Classicism or Ger. 415 German Romanticism and Realism).....	3	0
Ger. 308. Introduction to German Civilization (or Ger. 426 Modern German Literature or Ger. 428 German Drama or Ger. 436. Selected Readings).....	0	3
Hth. 200. Personal and Community Health.....	2	0
Basic Studies Requirement in Social Science.....	3	3
Spch. 200. Oral Communication	0	2
Elective in Foreign Language.....	3	3
*Electives	6	6
	<hr/> 17	<hr/> 17

SENIOR YEAR

Ger. 405. The Age of Classicism (or Ger. 415).....	3	0
Ger. 426. Modern German Literature (or Ger. 428 or Ger. 436)	0	3
*Electives	11	11
	<hr/> 14	<hr/> 14

*See first page of Foreign Language section for required courses in the Four-Year Program for a Major in Secondary German Education.

Four-Year Program for a Major in Latin

FRESHMAN YEAR

<i>Credit per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture	3	0
Eng. 101-102. Reading and Composition.....	3	3
Hist. 233-234. United States History.....	3	3
Lat. 101-102. Elementary Latin (or Lat. 231-232. Intermediate Latin)	3-4	3-4
Math. 107-108. Fundamentals of Mathematics.....	3	3
Mus. 200. Music in General Culture.....	0	3
Basic Studies Requirement in Physical Education.....	1	1
	<hr/>	<hr/>
	16(17)	16(17)

SOPHOMORE YEAR

Bio. 110. General Biology	4	0
Eng. 233-234. Introduction to Literature.....	3	3
Lat. 231-232. Intermediate Latin (or Lat. 305-306. Prose and Poetry of the Republic).....	3	3
*Psy. 231-232. General Psychology	3	3
Basic Studies Requirement in Physical Education	1	1
Basic Studies Requirement in a Physical Science	0	4
Elective in Foreign Language.....	3	3
	<hr/>	<hr/>
	17	17

JUNIOR YEAR

Hth. 200. Personal and Community Health.....	2	0
Lat. 305-306. Prose and Poetry of the Republic (or Lat. 315-316. Prose and Poetry of the Empire).....	3	3
Spch. 200. Oral Communication	0	2
Basic Studies Requirement in Social Science.....	3	3
Elective in Foreign Language.....	3	3
*Electives	6	6
	<hr/>	<hr/>
	17	17

SENIOR YEAR

Lat. 315-316. Prose and Poetry of the Empire (or Lat. 410. Advanced Syntax and Composition and Lat. 426. Selected Readings from Latin Literature)....	3	3
*Electives	11	11
	<hr/>	<hr/>
	14	14

*See first page of Foreign Language section for required courses in the Four-Year Program for a Major in Secondary Latin Education.

Four-Year Program for a Major in Spanish

FRESHMAN YEAR

<i>Credit per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	3	0
Eng. 101-102. Reading and Composition.....	3	3
Hist. 233-234. United States History.....	3	3
Math. 107-108. Fundamentals of Mathematics.....	3	3
Mus. 200. Music in General Culture.....	0	3
Sp. 101-102. Elementary Spanish (or Sp. 231-232. Intermediate Spanish or Sp. 250. Conversation and Composition and Sp. 308. Hispanic Civilization)...	3-4	3-4
Basic Studies Requirement in Physical Education.....	1	1
	<hr/> 16(17)	<hr/> 16(17)

SOPHOMORE YEAR

Bio. 110. General Biology	4	0
Eng. 233-234. Introduction to Literature.....	3	3
*Psy. 231-232. General Psychology	3	3
Sp. 231-232. Intermediate Spanish (or Sp. 250 and Sp. 308 or Sp. 315 Advanced Diction and Conversation and Sp. 318. Survey of Spanish Literature)...	3	3
Basic Studies Requirement in Physical Education	1	1
Basic Studies Requirement in a Physical Science	0	4
Elective in Foreign Language.....	3	3
	<hr/> 17	<hr/> 17

JUNIOR YEAR

Hth. 200. Personal and Community Health.....	2	0
Sp. 315. Advanced Spanish Diction and Conversation (or Sp. 405 or Sp. 415 or Sp. 425).....	3	0
Sp. 320. Advanced Spanish Grammar (or Sp. 406 or Sp. 426 or Sp. 436).....	0	3
Spch. 200. Oral Communication	0	2
Basic Studies Requirement in Social Science.....	3	3
Elective in Foreign Language.....	3	3
*Electives	6	6
	<hr/> 17	<hr/> 17

SENIOR YEAR

Sp. 405. Spanish Novel of the Nineteenth and Twentieth Centuries (or Sp. 415 or Sp. 425).....	3	0
Sp. 406. Spanish Drama of the Nineteenth and Twentieth Centuries (or Sp. 426 or Sp. 436).....	0	3
*Electives	11	11
	<hr/> 14	<hr/> 14

*See first page of Foreign Language section for required courses in the Four-Year Program for a Major in Secondary Spanish Education.

Description of Courses

FRENCH 101-102. *Elementary French* (I and II; 4, 1), 4 credits each semester. Year course.

A rapid college course of one continuous year for students who offer no entrance credit in the language. A study of the fundamentals of the French language through written and oral grammar drills, conversation, reading, dictation and composition. Extensive practice in pronunciation, dictation and development of aural comprehension through two half-hour sessions a week in the language laboratory.

FRENCH 105-106. *Special Elementary French* (I and II; 3, 0), 3 credits each semester.

A rapid introductory course for students who intend to acquire only a reading knowledge of French. Selections from the fields of humanities, social sciences, and sciences according to individual needs. Especially recommended for students without a previous knowledge of French who intend to fulfill graduate school reading requirements. This course is not part of the course requirements for foreign language majors and minors, nor is it a prerequisite for French 231-232.

FRENCH 131. *Elementary French Review* (I; 4, 1), 3 credits.

This course is designed for students who offer two or more units from high school but do not pass the regular placement test for Intermediate French. It gives a thorough grammar review, including composition, dictation, and conversation. Students passing this course will join the regular French 232 in the second semester.

FRENCH 231-232. *Intermediate French* (I and II; 3, 0), 3 credits each semester. Year course.

A thorough grammar review, composition, dictation, and conversation. Skills in reading and writing are developed through easy readings of French literature. *Prerequisite: One year of college French (or equivalent).*

FRENCH 250. *French Conversation and Advanced Composition* (I or II; 3, 0), 3 credits.

Intensive training in the use and comprehension of modern everyday French with emphasis upon conversation and composition to give the student confidence in expressing himself in simple idiomatic French. *Prerequisite: Fr. 231 (or equivalent).*

FRENCH 308. *Introduction to French Civilization* (II; 3, 0), 3 credits.

A study of French life and culture and the outstanding contributions of France to world civilization. Instruction is in French. *Prerequisite: Fr. 250.*

FRENCH 315. *Advanced French Diction and Conversation* (I; 3, 0), 3 credits.

Intensive drill on French sounds, study of intonation in conversation and in the reading of poetry and prose. Continued emphasis upon conversation. Instruction is in French. *Prerequisite: Fr. 250.*

FRENCH 320. *Advanced French Grammar* (I or II; 3, 0), 3 credits.

Advanced course in grammar and syntax with extensive practice in composition. Instruction is in French. *Prerequisite: Fr. 250.*

FRENCH 405. *The French Romantic Movement* (I; 3, 0), 3 credits.

Follows the main current of French literature during the first half of the Nineteenth Century with special stress upon Victor Hugo, Alphonse de Lamartine, Alfred de Vigny, Alfred de Musset, George Sand and others. Instruction is in French. *Prerequisite: Three years of college French (or equivalent).*

FRENCH 406. *The French Realistic Movement* (II; 3, 0), 3 credits.

Follows the main current of French literature during the second half of the Nineteenth Century with special stress upon the works of Honore de Balzac, Gustave Flaubert, Alphonse Daudet, Emile Zola, Anatole France and others. Instruction is in French. *Prerequisite: Three years of college French (or equivalent).*

FRENCH 415. *French Classical Theatre* (I; 3, 0), 3 credits.

Moliere, as representative of the French Classical Comedy, and Corneille and Racine, as representatives of the French Classical Drama, will be studied. Instruction is in French. *Prerequisite: Three years of college French (or equivalent).* (Not offered in 1969-70)

FRENCH 417. *French Literature of the Eighteenth Century* (I; 3, 0), 3 credits.

A study of the writings of Montesquieu, Voltaire, Rousseau, Diderot, d'Alembert and others. Instruction is in French. *Prerequisite: three years of college French (or equivalent).* (Not offered in 1969-70)

FRENCH 426. *French Literature of the Twentieth Century* (II; 3, 0), 3 credits.

Such modern French writers as Jules Romain, George Duhamel, Andre Maurois, J. Paul Sartre, Albert Camus and others will be studied. Instruction is in French. *Prerequisite: Three years of college French (or equivalent).* (Not offered in 1969-70)

FRENCH 436. *Selected Readings from French Literature* (II; 3, 0), 3 credits.

Selected reading course on various periods of French literature suited to meet the needs of students enrolled. Instruction is in French. *Prerequisite: Three years of college French (or equivalent).*

German

GERMAN 101-102. *Elementary German* (I and II; 4, 1), 4 credits each semester. Year course.

An introductory course designed to enable students to master the fundamentals of grammar; ample practice for reading, speaking, and writing German. Simple conversations on everyday topics. Extensive practice in pronunciation will be done in the language laboratory in two half-hour sessions a week.

GERMAN 105-106. *Special Elementary German* (I and II; 3, 0), 3 credits each semester.

A rapid introductory course for students who intend to acquire only a reading knowledge of German. Selections from the fields of humanities, social sciences, and sciences according to individual needs. Especially recommended for students without a previous knowledge of German who intend to fulfill graduate school reading requirements. This course is not part of the course requirements for foreign language majors and minors, nor is it a prerequisite for German 231-232. (Not offered in 1969-70)

GERMAN 231-232. *Intermediate German* (I and II; 3, 0), 3 credits each semester. Year course.

Brief grammar review. Skills in reading and writing German are developed. Exercises in simple composition; conversations based on everyday topics. Outside readings. *Prerequisite: One year of college German (or equivalent).*

GERMAN 305. *German Conversation and Advanced Composition* (I; 3, 0), 3 credits.

Intensive training in the use and comprehension of everyday German. Emphasis upon conversation, intonation and sounds. Compositions based on topics used in conversational practice and parallel readings of contemporary interest. *Prerequisite: Two years of college German (or equivalent).*

GERMAN 308. *Introduction to German Civilization* (II; 3, 0), 3 credits.

A comprehensive study of the history and the cultural contributions of the German speaking people of western Europe. Lectures, discussions, oral and written reports. Instruction is in German. *Prerequisite: German 305.*

GERMAN 405. *The Age of German Classicism* (I; 3, 0), 3 credits.

Readings and interpretation of significant works of Lessing, Schiller, and Goethe. Instruction is in German. *Prerequisite: Three years of college German (or equivalent).* (Not offered in 1969-70)

GERMAN 415. *German Romanticism and Realism* (I; 3, 0), 3 credits.

A study of romanticism and realism with emphasis on romantic poetry and the realistic novel. Instruction is in German. *Prerequisite: Three years of college German (or equivalent).*

GERMAN 426. *Modern German Literature* (II; 3, 0), 3 credits.

A study of the main literary trends of the Twentieth Century. The works of such writers as Herman Hesse, Thomas Mann, Rainer Maria Rilke, Franz Kafka, Heinrich Boll, and Bertolt Brecht are discussed. Instruction is in German. *Prerequisite: Three years of college German (or equivalent)*. (Not offered in 1969-70)

GERMAN 428. *German Drama* (II; 3, 0), 3 credits.

A study of the drama during the Nineteenth and Twentieth Centuries from Heinrich von Kleist to Friedrich Dürrenmatt. Instruction is in German. *Prerequisite: Three years of college German (or equivalent)*.

GERMAN 436. *Selected Readings from German Literature* (II; 3, 0), 3 credits.

Selected readings from periods of German literature not previously studied. Suited to meet the needs of students enrolled. Instruction is in German. *Prerequisite: Three years of college German (or equivalent)*. (Not offered in 1969-70)

Latin

LATIN 101-102. *Elementary Latin* (I and II; 4, 0), 4 credits each semester. Year course.

The structural approach is used. This course covers the elementary work regularly included in the first two years of high-school Latin, stressing the fundamentals of Latin grammar and the reading of easy Latin prose including graded selections from Caesar. Word study in relation to English. Introduction to Roman life and culture. This course is designed also to have positive value for students in other departments who feel the need of a foundation in Latin.

LATIN 231-232. *Intermediate Latin* (I and II; 3, 0), 3 credits each semester. Year course.

Study of Latin grammar and versification. Writing of simple Latin prose. Reading Cicero's *Pro Archia* in its entirety, and selections from Virgil's *Aeneid* and from Ovid.

LATIN 305-306. *Prose and Poetry of the Republic* (I and II; 3, 0), 3 credits each semester.

Prose selections from Cato, Varro, Caesar, Sallust, Nepos, Livy, and the philosophical works of Cicero; poetry selections from Ennius, Plautus, Terence, Lucretius, Catullus, Vergil: *Georgics* and *Eclogues*; collateral reading in Roman culture. *Prerequisite: Two years of college Latin (or equivalent)*.

LATIN 315-316. *Prose and Poetry of the Empire* (I and II; 3, 0), 3 credits each semester.

Prose selection from Seneca, Petronius, Quintilian, Tacitus, Pliny, Suetonius; poetry selections from Horace, Propertius, Ovid, Martial, Juvenal;

collateral reading in Roman history; advanced prose compositions of the public and private life of the Romans. *Prerequisite: Two years of college Latin (or equivalent)*. (Not offered in 1969-70)

LATIN 410. *Advanced Syntax and Composition* (I; 3, 0), 3 credits.

A review of the principles of syntax. Exercises in prose composition. Intensive readings in classical Latin. *Prerequisite: Two years of college Latin (or equivalent)*.

LATIN 426. *Selected Readings from Latin Literature* (II; 3, 0), 3 credits.

Intended to supplement the student's readings in the most important works of classical and medieval literature. Subject matter adapted to the needs of the individual students. *Prerequisite: Three years of college Latin (or equivalent)*. (Not offered in 1969-70)

LATIN 458. *Classical Civilization* (II; 3, 0), 3 credits.

This course is a survey, taught in English, of the elements of Greek and Roman civilization. It is designed to show the classical heritage of our Western World in the fields of language, religion, philosophy, art, literature, and government. This course is not part of a major; no prerequisite. Open to all students. (Not offered in 1969-70)

Russian

RUSSIAN 101-102. *Elementary Russian* (I and II; 4, 1), 4 credits each semester. Year course.

A study of the fundamentals of the Russian language. Oral practice, hearing and reading comprehension, the grammar necessary for simple spoken and written expression. Extensive practice in pronunciation will be done in the language laboratory in two half-hour sessions a week.

RUSSIAN 231-232. *Intermediate Russian* (I and II; 3, 0), 3 credits each semester. Year course.

A thorough review of grammar. Vocabulary building, conversation, written exercises and reading. *Prerequisite: One year of college Russian (or equivalent)*.

RUSSIAN 250. *Russian Conversation and Composition* (I; 3, 0), 3 credits.

Intensive training in the use and comprehension of modern everyday Russian with emphasis on conversation, reading, dictation and composition to give the student confidence and fluency in expressing himself in idiomatic Russian. *Prerequisite: Russian 231 (or equivalent)*.

RUSSIAN 308. *Introduction to Russian Literature* (II; 3, 0), 3 credits.

Reading and discussion of representative works of 19th and 20th century Russian literature. Instruction is in Russian. *Prerequisite: Russian 250 (or equivalent)*.

RUSSIAN 365-366. *Russian Literature in Translation* (I and II; 3, 0), 3 credits each semester.

A knowledge of Russian is not required. All lectures and readings are in English. Either semester can be taken for credit. This survey course will treat Russian literature up to 1880 during the first semester and from 1880 to the present during the second semester.

Spanish

SPANISH 101-102. *Elementary Spanish* (I and II; 4, 1), 4 credits each semester. Year course.

This course is a study of the fundamentals of the Spanish language through conversation, reading and composition. Extensive practice in pronunciation, dictation, and development of aural comprehension through two half-hour sessions in the language laboratory.

SPANISH 131. *Elementary Spanish Review* (I; 4, 1), 3 credits.

This course is designed for students who offer two or more units from high school but do not pass the regular placement test for Intermediate Spanish. It gives a thorough grammar review, including composition, dictation, and conversation. Students passing this course will join the regular Spanish 232 in the second semester.

SPANISH 231-232. *Intermediate Spanish* (I and II; 3, 0), 3 credits each semester. Year course.

This course develops fundamental skills through grammar review, extensive reading, conversation and composition. *Prerequisite: One year of college Spanish (or equivalent).*

SPANISH 250. *Spanish Conversation and Composition* (I or II; 3, 0), 3 credits.

This course is designed to give students confidence and fluency in the use of the language. Original compositions and parallel reading will be discussed entirely in Spanish. Extemporaneous dialogues and skits will be used as the basis for conversation. *Prerequisite: Sp. 231 (or equivalent).*

SPANISH 308. *Hispanic Civilization* (II; 3, 0), 3 credits.

This course is a comprehensive study of Hispanic civilization seen within the context of the Western World. *Prerequisite: Sp. 250.*

SPANISH 315. *Advanced Spanish Diction and Conversation* (I; 3, 0), 3 credits.

Intensive drill on Spanish sounds with practice in intonation and pronunciation in conversation, in short speeches, in group discussions, and in the reading of poetry and prose. *Prerequisite: Sp. 250.*

SPANISH 318. *Survey of Spanish Literature* (II; 3, 0), 3 credits.

This course is a comprehensive study of Spanish literature from the Middle Ages to the present with particular emphasis on medieval literature, Golden Age poetry, Romantic literature, Nineteenth and Twentieth Century drama and poetry. The course is conducted in Spanish. *Prerequisite: Sp. 250.* (Not offered in 1969-70)

SPANISH 320. *Advanced Spanish Grammar* (II; 3, 0), 3 credits.

The grammatical structure of Spanish with special emphasis on syntax and stylistics. Practice in composition based on the Spanish of standard contemporary authors and practical usage. *Prerequisite: Sp. 250 (or equivalent).*

SPANISH 327-328. *Survey of Spanish-American Literature* (I and II; 3, 0), 3 credits each semester.

Either or both semesters may be taken for credit. The first semester gives a panoramic view of the outstanding literary figures from pre-Columbian time to the present with emphasis on the essay, poetry and short story. The second semester is a comprehensive study of the outstanding Latin American playwrights and their works. This course is conducted in Spanish. *Prerequisite: Sp. 250.*

SPANISH 405. *Spanish Novel of the Nineteenth and Twentieth Centuries* (I; 3, 0), 3 credits.

The development of the Spanish novel from the "costumbristas" in the 19th century through the realism of Galdos and from the writers of the Generation of 1898 to the present. *Prerequisite: Three years of college Spanish (or equivalent).* (Not offered in 1969-70)

SPANISH 406. *Spanish Drama of the Nineteenth and Twentieth Centuries* (II; 3, 0), 3 credits.

Readings and discussion of representative works of Spanish drama from the Neo-Classic and Romantic periods up to the present day. *Prerequisite: Three years of college Spanish (or equivalent).* (Not offered in 1969-70)

SPANISH 415. *The Spanish American Novel* (I; 3, 0), 3 credits.

Reading and analysis of representative works of Spanish-American novelists of the Nineteenth and Twentieth Century. *Prerequisite: Three years of college Spanish (or equivalent).* (Not offered in 1969-70)

SPANISH 425. *Prose of the Golden Age* (I; 3, 0), 3 credits.

This course is a study of the chivalric, sentimental, pastoral and picaresque genres of prose literature and of their development through the Golden Age, culminating in Cervantes. The course is conducted in Spanish. *Prerequisite: Three years of college Spanish (or equivalent).*

SPANISH 426. *Drama of the Golden Age* (II; 3, 0), 3 credits.

This course is a study of the "comedia" of the Golden Age including works of Lope de Vega, Calderon de la Barca, Tirso de Molina and Ruiz de Alarcon. The course is conducted in Spanish. *Prerequisite: Three years of college Spanish (or equivalent).*

SPANISH 436. *Selected Readings from Spanish Literature* (II; 3, 0), 3 credits.

A selected reading course on various periods of Spanish literature suited to meet the needs of students enrolled. *Prerequisite: Three years of college Spanish (or equivalent).*

FOREIGN LANGUAGE 350. *Teaching of Foreign Languages* (I; 3, 0), 3 credits.

Prospective modern foreign language and Latin teachers will become acquainted with the materials (records, tapes, books, films, etc.) available in the field. Problems in the teaching and administration of foreign language programs on the elementary and secondary level will be analyzed. Techniques in the use of a foreign language laboratory, audio-visual aids, selection of textbooks, the application of linguistics, and cultural instruction will be discussed. Observations and instructional films. This course is part of the major-minor requirements for students seeking teacher certification.

FOREIGN LANGUAGE 490. *Special Studies in Foreign Languages*. 1-3 credits.

This course is designed to give superior students an opportunity to do independent study under faculty supervision. Work may be done in all languages offered in the department. Permission to enroll must be secured from the Head of the Department.

DEPARTMENT of Music

DR. GORDON L. OHLSSON, *Head of the Department*

Professors ANDERSON, OHLSSON, and PERKINS

Associate Professors HICKS, LYON, MARSHALL, SCHNEIDER, and SHAW

Assistant Professors ININGER, KURTZ, LANCE, LELAND, NELSON, TETI, and
WATKINS

Instructor HOLLINGSWORTH

The Department of Music is organized for three purposes: (1) to prepare students to teach vocal and instrumental music in public and private schools; (2) to provide an adequate specialization for students who wish to pursue music as a major in a liberal arts program; and (3) to provide for all students basic music study and opportunities for further musical growth.

In support of these purposes the department offers programs leading to the degrees of Bachelor of Music Education and Bachelor of Arts with a major in Music. In addition there are several non-specialized music courses which students from any department may elect; these students from other departments may also take private music lessons for college credit.

It is assumed that a student choosing to major in music and music education will have sufficient musical talent to indicate promise in his field and that he will have had the necessary background and experience in the performance medium which he elects for his major. Each entering student will have, at the opening of school, a brief audition with a committee from the music faculty to evaluate his qualifications and to determine placement in major and minor performing areas.

All students who are pursuing a major in music are required to comply with the following recital policy:

As a requirement for either the Bachelor of Music Education Degree, or the Bachelor of Arts Degree with a major in music, all students will present a full or half recital (at the discretion of the major applied teacher) in the senior year.

The recital attendance policy for all majors and minors is as follows:

1. All students will attend all faculty recitals.
2. All students will attend 4/5 of all senior recitals, general departmental recitals, and weekly performance seminars.
3. All students will attend all additional campus musical events for which there is no admission charge.

A record of attendance including certified absences is kept in the office of the Music Department. Because the music staff believes that performance and attendance at recitals of all types are integral parts of applied music study, failure to comply with the recital attendance policy will affect the applied music grades.

No student in the department of music may appear as a representative of the College in a public or broadcast performance except with the recommendation of his teacher and approval of the Head of the Department of Music.

The Bachelor of Music Education degree qualifies the student for certification to teach vocal or instrumental music in the public schools of Virginia and most other states. Students may also gain music skills required for church music, for private music teaching, and for work in a phase of the music industry.

The Bachelor of Music Education degree requires a minimum of sixty-two (62) semester hours in music courses specified as follows:

(1) Music 141-142 (Theory I); Music 241-242 (Theory II); Music 327-328 (Conducting); Music 310 (Language Diction) and Music 340 (Choral Arranging) or Music 345-346 (Counterpoint) or Music 347-348 (Form and Analysis) or Music 355-356 (Orchestration); Music 365-366 (Music History) to total twenty-eight (28) semester hours.

(2) Music Education 105 (Instrumental Music—Percussion); Music Education 107-108 (Instrumental Music—Strings); Music Education 207 (Instrumental Music—Brass) and Music Education 307 (Instrumental Music—Woodwind) or Music Education 305-306 (Instrumental Music—Brass and Woodwind); Music Education 375 (Music for Children) and Music Education 376 (Music for Youth) to total eleven (11) semester hours.

(3) Ensemble and Applied Music electives to total twenty-three (23) semester hours.

The above provides the student with a comprehensive training in the skills, knowledges, and literature of music and an understanding of the principles, procedures, and materials for effective teaching.

In the Music Education program each student must select a principal or major performing medium and a minor performing medium. Those choosing choral music as the area of emphasis within the music education program will select voice, piano or organ as the major performing medium while those choosing instrumental music as the area of emphasis will select an instrument of the band or orchestra. Candidates for the Bachelor of Music Education degree must complete minimum requirements in the major applied music area. The minor performing medium may be chosen from other areas of applied music except that the instrumental major must take a minimum of one year of private voice lessons as a minor. All students preparing to teach in the public schools must also meet minimum piano requirements to qualify for student teaching.

The minimum requirements for a minor in Music Education is thirty (30) semester hours in music courses. Required courses in this area should include fifteen (15) semester hours of applied music, including conducting and ensemble experience; Music 141-142 (Theory I) plus seven (7) semester hours elected from the following: Music 300 (Music Appreciation); Music 345-346 (Counterpoint); Music 347-348 (Form and Analysis); Music 365-366 (Music History); Music 460 (Contemporary Music). It should be noted that a Music minor does not qualify a person to teach music in the public schools of Virginia.

The program leading to the B.A. degree with a major in Music requires a broad background in music as well as the general academic disciplines and foreign language. The emphasis is on those music disciplines which may serve as the basis for graduate study in the area of musicology, music literature and theory. A minimum of eight (8) credits in applied music is required, all to be taken in one area of musical performance. A student who elects to take applied music in excess of eight (8) hours may choose a second area of musical performance. The minimum requirement for a major in Music is forty-two (42) semester hours in music courses specified as follows:

- 1) Music Theory: Music 141-142 (Theory I); Music 241-242 (Theory II); Music 345-346 (Counterpoint); Music 347-348 (Form and Analysis); Music 455 (Composition) to total twenty-six (26) semester hours.
- 2) History and Literature: Music 365-366 (Music History); and Music 460 (Contemporary Music) to total eight (8) semester hours.
- 3) Applied Music elective: to total eight (8) semester hours.

The Music Department is an Associate Member of the National Association of Schools of Music.



Four-Year Program for Major in Music Education

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Eng. 101-102. Reading and Composition.....	3	3	
Hist. 233-234. United States History.....	3	3	
Mus. 141-142. Theory I.....	4	4	
Mus. 200. Music in General Culture.....	3	0	
Mus. Ed. 105. Instrumental Music (Percussion).....	0	1	
Mus. Ed. 107-108. Instrumental Music (Strings).....	1	1	
Basic Studies Requirement in Physical Education.....	1	1	
Elective in Ensemble.....	0	1	
Electives in Applied Music.....	2	3	
	<hr/>	17	17

SOPHOMORE YEAR

Eng. 233-234. Introduction to Literature.....	3	3	
Math. 107-108. Fundamentals of Mathematics (or Math. 125-126. Introduction to College Mathematics).....	3	3	
Mus. 241-242. Theory II.....	4	4	
Mus. Ed. 207, 307. Instrumental (Brass; Woodwind) [or Mus. Ed. 305-306. Instrumental Music (Brass and Woodwind)].....	1	1	
Psy. 233-234. Human Growth and Development.....	3	3	
Basic Studies Requirement in Physical Education.....	1	1	
Elective in Ensemble.....	0	1	
Electives in Applied Music.....	2	2	
	<hr/>	17	18

JUNIOR YEAR

Art 200. Art in General Culture.....	0	3	
Mus. 327-328. Conducting.....	1	1	
Mus. 347-348. Form and Analysis.....	2	2	
Mus. 365-366. Music History.....	3	3	
Mus. Ed. 375. Music for Children.....	3	0	
Spch. 200. Oral Communication.....	2	0	
Basic Studies Requirement in Biological Science.....	4	0	
Basic Studies Requirement in a Physical Science.....	0	4	
Elective in Ensemble.....	0	4	
Electives in Applied Music.....	2	3	
	<hr/>	17	17

SENIOR YEAR

Ed. 360. Foundations of Curriculum.....	3	0	
Ed. 470. History and Philosophy of Educational Thought.....	0	3	
Ed. 480. Directed Teaching.....	6	0	
Hth. 200. Personal and Community Health.....	0	2	
Mus. Ed. 376. Music for Youth.....	0	3	
Basic Studies Requirement in History and/or Social Science.....	3	3	
Elective in Ensemble.....	0	1	
Electives in Applied Music.....	2	3	
	<hr/>	14	15

Four-Year Program for a Major in Music

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	3	0	
Eng. 101-102. Reading and Composition.....	3	3	
Mus. 141-142. Theory I	4	4	
Mus. 200. Music in General Culture.....	0	3	
Basic Studies Requirement in Physical Education.....	1	1	
Electives in Applied Music.....	2	2	
Elective in Foreign Language.....	3	3	
	<hr/>	<hr/>	
		16	16

SOPHOMORE YEAR

Eng. 233-234. Introduction to Literature.....	3	3	
Math. 125-126. Introduction to College Mathematics.....	3	3	
Music 241-242. Theory II	4	4	
Psy. 231-232. General Psychology	3	3	
Elective in Applied Music	1	1	
Elective in Foreign Language	3	3	
	<hr/>	<hr/>	
		17	17

JUNIOR YEAR

Hist. 233-234. United States History.....	3	3	
Mus. 365-366. Music History	3	3	
Mus. 345-346. Counterpoint	2	2	
Basic Studies Requirement in Biological Science	4	0	
Basic Studies Requirement in Physical Education	1	1	
Basic Studies Requirement in a Physical Science	0	4	
Electives in Applied Music	1	1	
Elective in Foreign Language.....	3	3	
	<hr/>	<hr/>	
		17	17

SENIOR YEAR

Hth. 200. Personal and Community Health.....	0	2	
Mus. 347-348. Form and Analysis.....	2	2	
Mus. 455. Composition	2	0	
Mus. 460. Contemporary Music	0	2	
Phil. 240. Introduction to Philosophy.....	3	0	
Spch. 200. Oral Communication	2	0	
Basic Studies Requirement in History and/or Social Science.	3	3	
Electives	2	5	
	<hr/>	<hr/>	
		14	14

Description of Courses

MUSIC 141-142. *Theory I* (I and II; 5, 0), 4 credits.

An integrated course for the development of basic musicianship. Music reading in unison and parts, scale construction, rhythm and interval work, melody writing, dictation, keyboard harmony, and a study of triads, inversions, primary and secondary chords, embellishments, modulation to closely related keys, and musical form. Analytical listening, using simpler master compositions.

MUSIC 200. *Music in General Culture* (I or II; 4, 0), 3 credits.

This course aims to increase the variety and depth of the student's interest in music and related cultural activities. It seeks to stress the relation of music as an art to our daily lives and music's place in society, to promote an understanding of the spirit of the art which will lead to the emotional and aesthetic development of the individual, and to enable him to enjoy intelligent listening.

MUSIC 241-242. *Theory II* (I and II; 5, 0), 4 credits.

A continuation of Theory I, with the addition of chromatic alterations, and non-harmonic tones. Harmonic and form analysis of master compositions. The linear as well as the harmonic aspect of music is stressed. Most of the second semester is devoted to the study of elementary contrapuntal techniques. Creative work in smaller forms is encouraged.

MUSIC 300. *Music Appreciation* (I or II; 3, 0), 3 credits.

An enriching, cultural course, planned for the general student. A continuation of Music 200 with more detailed attention given to styles and forms through study of selected musical works of the masters. *Prerequisite: Mus. 200 (or equivalent).*

MUSIC 310. *Language Diction* (II; 2, 0), 2 credits.

A single semester course limited to pronunciation. The course is designed for voice majors who have little or no background in foreign languages but who need knowledge of pronunciation for the study and performance of vocal and choral literature. Study will emphasize French and German, and will involve practice in the language laboratory.

MUSIC 327-328. *Conducting* (I and II; 2, 0), 1 credit.

To acquaint and prepare prospective music teachers with techniques and practices in conducting bands, orchestra, choral groups and in leading assembly and community groups in singing. (*Vocal, 1st semester; instrumental, 2nd semester.*)

MUSIC 340. *Choral Arranging* (II; 2, 0), 2 credits.

Study and practice of arranging music for chorus, with special emphasis on characteristics of high school choral groups. *Prerequisites: Mus. 141-142 and Mus. 241-242.*

MUSIC 347-348. *Form and Analysis* (I and II; 2, 0), 2 credits.

A review of the small structural elements—the section, phrase, periods, irregular phrases, binary, and ternary form. The study of larger song forms, the sonata form, rondo and fugue. Harmonic analysis of classic, romantic, and modern composition. (*Mus. 347 is prerequisite to Mus. 348.*)

MUSIC 355-356. *Orchestration* (I and II; 2, 0), 2 credits.

Arranging for ensembles, band and orchestra. (*Mus. 355 is prerequisite to Mus. 356.*)

MUSIC 365-366. *Music History* (I and II; 3, 0), 3 credits.

The development of music from its beginning with emphasis on Polyphonic, Classical and Romantic Schools. Some attention is given to twentieth-century music. This course is basic for music majors and is open to students in all curricula. *Prerequisites: Mus. 200, Mus. 141-142.*

MUSIC 455-456. *Composition* (I and II; 2, 0), 2 credits.

Original composition, arranging and orchestrating. Students may advance as rapidly as their time and talent permit.

MUSIC 460. *Contemporary Music* (II; 2, 0), 1 credit.

A survey, through directed listening, of the trends found in twentieth-century music, stressing appreciative rather than technical aspects.

MUSIC 475-476. *The Teaching of Piano* (I and II; 2, 0), 1 credit.

Procedures and materials for the teaching of piano individually, especially to children, the first semester; the teaching of piano in classes, the second semester.

MUSIC 477-478. *The Teaching of Voice* (I and II; 2, 0), 1 credit.

Materials and techniques for the teaching of voice. This includes a survey of languages, vocal literature, interpretation, teaching of voice in classes, accompaniments and the art of playing them.

MUSIC 501. *Choral Materials and Techniques* (Summer; 3, 0), 3 credits.

A study of the problems, materials and techniques of teaching choral music in the high school. Laboratory experiences will be provided at the Virginia Music Camp at Massanetta Springs.

MUSIC 502. *Instrumental Materials and Techniques* (Summer; 3, 0), 3 credits.

A study of the problems, materials and techniques of teaching instrumental music in the high school, with emphasis on orchestra. The orchestra of the Music Camp at Massanetta Spring will provide laboratory experience and opportunities for observation.

MUSIC 521. *Music for the Church* (Summer; 3, 0), 3 credits.

A study of some of the most common problems of the church musician. Special emphasis will be placed on organ registration, repertory, and service playing; on choirs and choral literature; and on appropriate music for the church year. Students may work along one or more of these lines, according to their interests.

MUSIC 522. *Master Class in Piano* (Summer; 3, 0), 3 credits.

Emphasis will be placed on a broadened knowledge and use of teaching materials and techniques, on repertory and on improving students' own performance. Students who are more interested in teaching may concentrate on phases of pedagogy in lieu of performance.

MUSIC 526. *Advanced Conducting (Choral and Instrumental)* (Summer; 3, 0), 3 credits.

Refinement of baton technique. Score reading. Specific problems selected from standard works. Practical experience with choral and instrumental groups. *Prerequisite: Mus. 327-328 (or equivalent).*

MUSIC 527. *Instrumental Techniques* (Summer; 2, 0), 2 credits.

This course is designed for instrumental music teachers who need further help with one specific instrument or group of instruments. Members of the group will work together and separately, each on his special concentration.

MUSIC 541. *Modern Harmony and Composition* (Summer; 3, 0), 3 credits.

A study of the harmonic, contrapuntal and other stylistic devices of the twentieth-century composer and their application in creative writing by the student who wishes to acquire a technique in the contemporary idiom. Composition in both small and large forms depending upon the talent and background of the student. This course is not only for the talented composition student but also for the teacher and performer who desires an increased understanding of our contemporary music.

MUSIC 542. *Modern Harmony and Composition* (Summer; 3, 0), 3 credits.

A sequel to Music 541. One course may be taken without the other and either may be elected first.

MUSIC 545. *Instrumentation* (Summer; 3, 0), 3 credits.

The arranging of music for orchestra, band, and various ensemble groups. Styles in arranging, range and characteristics of the different instruments, and instrumentation for various types of musical composition.

MUSIC 561. *Music of the Baroque and Classical Periods* (Summer; 3, 0), 3 credits.

The study of vocal, instrumental and organ music of the Baroque Period beginning with the late Renaissance composers Monteverdi, G.

Gabrielli and Sweelinck and culminating in Bach and Handel; the Mannheim School; the preclassical Viennese composers; Gluck, Haydn, Mozart, Beethoven.

MUSIC 562. *Music of the Romantic Period* (Summer; 3, 0), 3 credits.

A study of the Romantic movement in music with reference to its historical background and parallel movement in literature and art. The music of Schubert, Weber, Berlioz, Mendelssohn, Liszt, Chopin, Wagner, Brahms and their contemporaries. Post-romanticism: Elgar, MacDowell, R. Strauss, Sibelius, and others.

MUSIC 563. *Twentieth-Century Music* (Summer; 3, 0), 3 credits.

A survey of the trends found in twentieth-century music. Impressionism; "New Music" from Satie to Schoenberg, Bartok, and Hindemith. The music of contemporary American composers.

MUSIC 570. *Analytical Studies in Music Literature* (Summer; 3, 0), 3 credits.

The study of representative works from all periods in terms of their formal and stylistic characteristics. Stylistically the analysis will include a consideration of the following: melodic and rhythmic elements, harmonic and contrapuntal techniques, texture (in its many ramifications), orchestration (vocastration) and the interrelation of these elements in the forms as a whole. Finally the study will view each work as a product of a definite aesthetic concept.

MUSIC EDUCATION 105. *Instrumental Music (Percussion)* (II; 2, 0), 1 credit.

Class instruction in playing the percussion instruments, band marching, parading, and the training of drum majors. Methods and materials for class teaching.

MUSIC EDUCATION 107-108. *Instrumental Music (Strings)* (I and II; 2, 0), 1 credit.

Class instruction in playing the string instruments. Study of the violin as the basic instrument followed by the viola, cello and bass. Methods and materials for string class teaching.

MUSIC EDUCATION 207. *Instrumental Music (Brass)* (I and II; 2, 0), 1 credit.

Class instruction in playing the brass instruments. Methods and materials for class teaching.

MUSIC EDUCATION 305-306. *Instrumental Music (Brass and Woodwind)* (I and II; 2, 0), 1 credit.

This is a course in the playing of brass and woodwind instruments and is open only to majors in instrumental music. Work will progress rapidly and will include materials and techniques of teaching.

MUSIC EDUCATION 307. *Instrumental Music (Woodwind)* (I and II; 2, 0), 1 credit.

Class instruction in playing woodwind instruments. Methods and materials for class teaching.

MUSIC EDUCATION 375. *Music for Children* (I or II; 3, 2), 3 credits.

A study of the musical responses and needs of elementary children and of appropriate experiences that can be provided them through the cooperative efforts of the special music teacher and the classroom teacher. Materials for elementary music. Provision will be made for the individual differences existing between teachers, pupils, and types of schools. Particular attention will be given to the use of records for the teacher who does not sing or play the piano.

MUSIC EDUCATION 376. *Music for Youth* (II; 3, 0), 3 credits.

The place of music in the cultural education of adolescents; relationships of school and community music; the teaching of choral music, of instrumental music, and of general and specialized music offerings. The use of standardized music tests; the place of public music performances. Administration of music; housing and equipment for music offerings.

Applied Music Instruction

Students may begin the private study of music or continue at their level of achievement. All who desire private lessons should confer with the Head of the Music Department before registering.

The following should guide students in their choice of a major area:

1. While not absolutely necessary in the case of instrumental majors, it is desirable that all students have at least an elementary knowledge of the piano.
2. They should have a reliable fundamental technique which will enable them to achieve adequately at least the minimum requirements given for the various major areas.
3. They should be acquainted with elementary standard technical studies and with preparatory-level literature in the major area.

All students in the music program and students in elementary education with a concentration in music must pass a short examination in their principal and minor areas of applied music each semester, this examination to be given by a jury of the music faculty. The jury will be concerned with musical understanding and quality of performance rather than mere difficulty of the music.

Courses in music performance follow. Substitute in place of "applied music" the area in which you register for instruction: piano, voice, organ, etc. Requirements shown are *Minimum requirements for graduation*; students may progress as quickly and as far as their interests and ability permit.

APPLIED MUSIC 115-116 (first year); **215-216** (second year); **315-316** (third year); **415-416** (fourth year). One half-hour lesson a week. Five hours minimum practice per week. One credit each semester.

APPLIED MUSIC 125-126 (first year); **225-226** (second year); **325-326** (third year); **425-426** (fourth year). Two half-hour lessons a week. Ten hours minimum practice per week. Two credits each semester.

APPLIED MUSIC 135-136 (first year); **235-236** (second year); **335-336** (third year); **435-436** (fourth year). Two half-hour lessons a week. Fourteen hours minimum practice per week. Three credits each semester.

APPLIED MUSIC 511 (first year); **512** (second year); **513** (third year); **514** (fourth year). One half-hour lesson a week. Five hours minimum practice per week. One credit each semester.

PIANO

B.M.Ed. Program, minimum requirements: Scales four octaves, hands together in graduated tempi; technical studies to meet individual needs, e.g., Hanon or Cramer. Works from Baroque, Classical, Romantic and Contemporary eras. Sight reading of simple classics. Participation in piano class and departmental recitals.

VOICE

B.M.Ed. Program, minimum requirements: Building of sound vocal technique with the use of appropriate material for various stages of development. Representative standard vocal literature of all periods and styles—Lieder, Oratorio and Opera—to be studied in English and in the original language. The literature studied each year is necessarily dependent upon the level of technical and musical development.

ORGAN

B.M.Ed. Program, minimum requirements: Organ technique and registration; studies of the type of Stainer's "The Organ" or Dickinson's "The Art and Technique of Organ Playing;" works of medium difficulty from Baroque, Classical and Contemporary composers.

VIOLIN

B.M.Ed. Program, minimum requirements: Scales and arpeggi, major and minor, in three octaves; double stop scales; appropriate technical studies from Kreutzer, Fiorillo and/or Dont op. 37. Concertos such as Nardini E minor, Viotti no. 22, Spohr and Bach. Sonatas of the old Italian masters and of Handel and Mozart. Recital pieces. Chamber music study.

OTHER BAND AND ORCHESTRAL INSTRUMENTS

B.M.Ed. Program, minimum requirements: Embouchure and tone development; techniques applicable to the instrument; scales and arpeggi, major and minor; standard technical studies. Sonatas, concerti and repertoire pieces of medium difficulty. Ability to participate in the performance of standard orchestral literature.

MUSIC ENSEMBLES

All music majors are required to participate in some music ensemble throughout their four years of study. Students not majoring in music may register for the following courses, but they should consult with the director of the organization before registering.

BAND 109 (first year); 209 (second year); 309 (third year); 409 (fourth year). 2 periods a week; 1 credit a year. (Year course.)

The purpose of the organization is to acquaint students with a wide variety of band music, including much that is suitable for use with high-school groups, and through the playing of this to develop ensemble techniques, music reading power, and general musicianship. For the benefit of the music majors who will become teachers, the techniques of the marching band will also be studied along with organization procedures used by the band leaders in the public schools.

CHAMBER MUSIC 109 (first year); 209 (second year); 309 (third year); 409 (Fourth year). 2 periods a week; 1 credit a year. (Year course.)

Chamber music study is required of all string majors and is to be considered an integral part of their applied music course. Trios and quartets of Haydn, Mozart, Beethoven, Mendelssohn, Schubert, Tchaikowsky, Dvorak. Quintets of Mozart, Schumann, Brahms, Franck and others. Contemporary works. Other chamber music combinations may be formed as need arises.

CHORUS 109 (first year); 209 (second year); 309 (third year); 409 (fourth year). 2 periods a week; 1 credit a year. (Year course.)

The purpose of the organization is to acquaint students with a variety of choral music, including much that is suitable for use with school groups, and through the singing of this to develop choral techniques and general musicianship.

COLLEGE CHORALE 109 (first year); 209 (second year); 309 (third year); 409 (fourth year). 2 periods a week; 1 credit a year. (Year course.)

This is a group limited to about fifteen mixed voices. Students are admitted by individual audition. The repertoire emphasizes madrigals; 17th and 18th century ensemble literature, secular and sacred; and the intimate type of cantata and operetta.

CONCERT CHOIR 109 (first year), 209 (second year); 309 (third year); 409 (fourth year). 3 periods a week; 1 credit a year. (Year course.)

The choir is an activity to which students are admitted by individual tests. A "C" average is required as a minimum for membership. Music majors who are admitted will not be required, but will be encouraged, to participate in other choral activities. This course may be taken without credit.

ORCHESTRA 109 (first year); 209 (second year); 309 (third year); 409 (fourth year). 3 periods a week; 1 credit a year. (Year course.)

The purpose of the organization is to acquaint students with much orchestra music, and through the playing of this, to develop ensemble techniques, music reading, and general musicianship. In addition to the opportunities for public appearances that are provided on the campus, trips are made throughout the State. The orchestra is open to all students who have sufficient ability to play the music being studied.

THE MADISON SINGERS 109 (first year); 209 (second year); 309 (third year); 409 (fourth year). 3 periods a week; 1 credit a year. (Year course.)

The Madison Singers is a highly specialized vocal organization which is limited to from 16 to 20 singers. Membership is by audition. The repertoire is widely varied from early madrigals to jazz. This course may be taken without credit.



DEPARTMENT

of Speech and Drama

DR. EUGENE R. MOULTON, *Head of the Department*

Professors MOULTON and R. PATTERSON

Assistant Professors BURR, KENESTRICK, and H. PATTERSON

Assistant Instructor FRANTZ

Major areas of concentration are: Public Address, Radio-Television, Theatre, and Communication Arts.

Courses in the Department of Speech and Drama are designed for three classes of students: (a) those who plan to do graduate work in public address and rhetoric, or theatre; (b) those who intend to teach speech or theatre in secondary schools; and (c) those who have vocational plans that may be aided by study in these subject areas.

The minimum requirement for a major in Speech and Drama is thirty (30) semester hours, excluding Speech 200, subject to the approval of the Head of the Department. A minor in Speech and Drama will include eighteen (18) semester hours, subject to the approval of the Head of the Department. English 315 (News Writing), English 316 (News Editing), English 369 (Shakespeare), and Education 400 (Speech Correction) are acceptable courses in the Speech and Drama major, subject to the approval of the Head of the Department.

All majors in the Department of Speech and Drama, regardless of their area of concentration, will be required to complete the following core curriculum of fifteen (15) semester hours: Speech 200 (Oral Communication) or Speech 250 (Theory of Speech Communication), Speech 249 (Oral Interpretation), Speech 265 (Argumentation and Debate) or Speech 266 (Group Discussion and Conference Leadership), Speech 285 (Introduction to Radio and Television), Speech 367 (Technical Theatre) or Speech 375 (Development of Drama), and Speech 390 (Creativity). The Department of Speech and Drama recommends that majors in the department work toward the B.A. degree.

Four-Year Program for a Major in Speech and Drama

FRESHMAN YEAR

Credits per Semester: 1st 2nd

Bio. 110. General	0	4
Eng. 101-102. Reading and Composition.....	3	3
Hist. 233-234. United States History.....	3	3
Spch. 249. Oral Interpretation	3	0
Spch. 250. Theory of Speech Communication.....	0	2
Spch. 265. Argumentation and Debate (or) Speech 266. Group Discussion and Conference Leadership.....	3	0
Basic Studies Requirement in Physical Education	1	1
Basic Studies Requirement in a Physical Science	4	0
Electives	0	3-4
	<hr/> 17	<hr/> 16-17

SOPHOMORE YEAR

Art 200. Art in General Culture.....	3	0
Eng. 233-234. Introduction to Literature.....	3	3
Math. 107-108. Fundamentals of Mathematics.....	3	3
Mus. 200. Music in General Culture.....	0	3
Spch. 285. Introduction to Radio and Television.....	3	0
Spch. 390. Creativity	0	3
Basic Studies Requirement in Physical Education.....	1	1
Electives	3-4	3-4
	<hr/> 16-17	<hr/> 16-17

JUNIOR YEAR

Hth. 200. Personal and Community Health.....	2	0
Psy. 231-232. General Psychology (or Psy. 233-234. Human Growth and Development).....	3	3
Spch. 367. Technical Theatre (or Spch. 375. Development of Drama)	3	0
Basic Studies Requirement in Social Science.....	3	3
Electives	6	9-12
	<hr/> 17	<hr/> 15-18

SENIOR YEAR

Spch. 490. Directed Studies	3	0
Electives	12-15	15-18
	<hr/> 15-18	<hr/> 15-18

Hours designated as electives should be completed with courses in the Department of Speech and Drama to satisfy the student's major area of concentration. Any extra hours beyond meeting the major requirement may be used at the discretion of the student upon consultation with the Head of the Department.

Students interested in the program offered by the Department of Speech and Drama should consult Dr. Eugene R. Moulton, Zirkle House.

Description of Courses

SPEECH 200. *Oral Communication* (I or II; 2, 0), 2 credits.

A basic course in speech, designed to enable the students to better express themselves in basic speech situation.

SPEECH 201. *Forensics* (I or II; 1, 2), 1 credit.

Students who participate in inter-collegiate forensics receive 1 hour credit per semester. May be repeated during Freshman and Sophomore years, limit—4 hours.

SPEECH 249. *Oral Interpretation* (1; 3, 0), 3 credits.

Analysis of various forms of literature from the intellectual and the emotional viewpoints; the study of imagery, denotation, connotation, and motivation; the expression of these meanings orally.

SPEECH 250. *Theory of Speech Communication* (I or II; 2, 0), 2 credits.

Orientation in the areas of speech. Analysis of content and delivery factors in communication.

SPEECH 265. *Argumentation and Debate* (1; 3, 0), 3 credits.

This course introduces the student to the principles of argumentation and style in their application to the various forms of formal debate and provides practice in the conventional debate form on the current national inter-collegiate debate resolution.

SPEECH 266. *Group Discussion and Conference Leadership* (II; 3, 0), 3 credits.

The study of and practice in various types of oral group methodologies, including panel, forum, and symposium speaking.

SPEECH 285. *Introduction to Radio and Television* (I; 2, 2), 3 credits.

Orientation to the industries; history and philosophy of these media; federal regulations; general principles of programming, production, and management; survey of equipment and techniques; consideration of closed-circuit and educational television.

SPEECH 302. *Forensics* (I or II; 1, 2), 1 credit.

Students who participate in inter-collegiate forensics receive 1 hour credit per semester. May be repeated during Junior and Senior years. Limit—4 hours.

SPEECH 303. *Semantics* (I; 3, 0), 3 credits.

A study of words, their meanings, and their effect upon human behavior.

SPEECH 304. *The Art of Persuasive Speech* (II; 3, 0), 3 credits.

This course is designed to acquaint the student with various kinds of artistic and inartistic proofs as they might be applied to motivating the listener through oral discourse.

SPEECH 319. *Phonetics* (I or II; 3, 0), 3 credits.

Intensive exercises in identifying and transcribing sounds of American English using the IPA as a basis. Lectures will include articulatory problems, phonetic systems and relationship of all these to clinical and classroom activities.

SPEECH 359. *Business and Professional Speaking* (I; 3, 0), 3 credits.

Designed to continue the students' education in public speaking beyond the beginning course.

SPEECH 360. *Drama and Speech for Teachers* (II; 3, 0), 3 credits.

Training the prospective teacher in various types of Speech and Drama activities for which they might be responsible in the public school systems.

SPEECH 363. *Acting* (I; 3, 0), 3 credits.

Individual training in the art of acting for the University, Community, and professional stages.

SPEECH 365. *Radio Production* (I; 2, 2), 3 credits.

Organization and management of radio stations with emphasis on FCC rules, equipment, staffing, and production of broadcasts. Laboratory work on campus FM station. *Prerequisite: Speech 285.*

SPEECH 366. *Radio and Television Announcing* (II; 2, 2), 3 credits.

Principles and practice in use of voice, microphones, and recorders for news, drama, and variety shows, emphasizing Standard American Speech. Lab work with campus radio station.

SPEECH 367. *Technical Theatre* (I; 2, 2), 3 credits.

Practical training in theatrical production and stagecraft.

SPEECH 368. *Directing for the Theatre* (II; 2, 2), 3 credits.

The training of students in the theory and technique of directing dramatic productions.

SPEECH 370. *Television Production* (II; 2, 2), 3 credits.

Major emphasis placed on closed and open circuit telecasts, including art, slides, film, and still photography. Laboratory work in campus television studios. *Prerequisite: Speech 285.*

SPEECH 375-376. *Development of the Drama* (I and II; 3, 0), 3 credits.

A survey of the history and development of the drama from its Greek beginnings to the middle of the twentieth century. In addition to a study of representative plays, attention will also be given to the physical theatre. The first semester: from the beginning to Ibsen; the second semester: Ibsen to the present.

SPEECH 380. *Advanced Oral Interpretation* (II; 3, 0), 3 credits.

An advanced performing arts approach toward creative oral reading. *Prerequisite: Speech 249.*

SPEECH 390. *Creativity* (II; 3, 0), 3 credits.

To acquaint the students with their own creative abilities and expose them to various ideation techniques designed to sharpen the imagination.

SPEECH 410. *Rhetorical Theory and Criticism* (II; 3, 0), 3 credits.

The study of rhetoricians from Plato to Campbell, Blair, and Whately. *Prerequisite: Speech 250 (or consent of the instructor).*

SPEECH 490. *Directed Studies* (I or II; 0-4, 0), 2-4 credits.

An opportunity for students to pursue individual research under the guidance of a faculty adviser. Limited to majors in good standing, who have reached the senior level of college. (A student may sign up for 2 to 4 hours a semester, but not to exceed an over-all total of 6 units.) Must have approval of adviser and head of the department.

SPEECH 505. *Seminar in Theatre Production* (S.S.; lectures and Lab.), 3, 6, or 9 credits.

This seminar is designed to give students the opportunity to participate in Summer Theatre. Speech 505A, Acting; Speech 505B, Directing; and Speech 505C, Technical Theatre, will be taught in regular classes and will be practiced through actual productions.

DIVISION

of the Natural Sciences

DR. J. EMMERT IKENBERRY, *Director*

Divisional Programs

Medical Technology

Pre-Medicine

Pre-Dentistry

Pre-Nursing

Science (General)

Departmental Programs

Biology

Chemistry

Geology

Mathematics

Physical and Health Education

Pre-Public Health

Physics



Program in Medical Technology

This is a program leading to the Bachelor of Science degree in Medical Technology. It is offered cooperatively with the School of Medicine of the University of Virginia and other hospitals on the approved list of the Council of Medical Education and Hospitals of the American Medical Association and the Board of Schools of Medical Technology of the American Society of Clinical Pathologists.

The degree is conferred by Madison College upon the successful completion of the following three-year program at the College and one academic year at an approved school of medical technology. (No transfer students will be admitted to this program.) Upon completion of the full twelve months course in medical technology, the student is given a diploma by the hospital and becomes eligible for the national examination for certification by the Registry of Medical Technologists of the American Society of Clinical Pathologists.

FRESHMAN YEAR

Credits per Semester:

	1st	2nd
Bio. 110. General Biology	4	0
Bio. 120. General Zoology	0	4
Chem. 101-102. General Chemistry	4	4
Eng. 101-102. Reading and Composition	3	3
Math. 125-126. Introduction to College Mathematics.....	3	3
Basic Studies Requirement in Physical Education.....	1	1
Electives	0	2
	<hr/> 15	<hr/> 17

SOPHOMORE YEAR

Bio. 270. Human Physiology	3	0
Bio. 280. General Microbiology	0	4
Chem. 237. Organic Chemistry	4	0
Chem. 238. Biochemistry	0	4
Eng. 233-234. Introduction to Literature.....	3	3
Hist. 233-234. United States History	3	3
Psy. 231-232. General Psychology	3	3
Basic Studies Requirement in Physical Education.....	1	1
	<hr/> 17	<hr/> 18

JUNIOR YEAR

Art 200. Art in General Culture.....	3	0
Bio. Elective	0	3
Chem. 355. Qualitative Analysis	4	0
Chem. 356. Quantitative Analysis	0	4
Hth. 200. Personal and Community Health.....	2	0
Mus. 200. Music In General Culture.....	0	3
Spch. 200. Oral Communication	2	0
Basic Studies Requirement in Social Science.....	3	3
Electives	2	2
	<hr/> 16	<hr/> 15

SENIOR YEAR

The fourth year of this program consists of twelve months at the School of Medicine of the University of Virginia or some other School of Medical Technology approved by the American Medical Association and American Society of Clinical Pathologists.

To enter a School of Medical Technology, a separate application must be made by the student. A list of approved schools of medical technology is on file in the office of the student's adviser.

Students interested in a major in Medical Technology should consult Mr. Robert Graves, 222 Burruss Hall.

Four-Year Pre-Medical Program

This is a four-year program leading to the degree of Bachelor of Science for students planning to pursue a career in medicine. It includes all the courses required for admission to most medical schools.

Although colleges of medicine differ in their specific entrance requirements, all of them emphasize the importance of exceptional ability, marked aptitude in science, and outstanding achievement in pre-medical college education. A student who plans to apply for admission to a particular college of medicine should familiarize himself with the requirements of that college and consult his curriculum adviser concerning the program of courses that he should undertake at Madison.

Most medical schools require at least three years of college preparation, and prefer that their candidates have the full four years with the bachelor's degree. Medical schools specify a minimum amount of biology, chemistry, mathematics, and physics, but they want the pre-medical student to obtain a broad cultural background in such fields as literature, social science, psychology, philosophy, and the fine arts.

If a student prefers, he may choose to major in a department and include the science courses required for admission to medical school. If this plan is adopted, a natural choice would be biology or chemistry.

Students interested in a Pre-Medical major in Science should consult Dr. John E. Davis, 106 Burruss Hall.

Four-Year Pre-Medical Program

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 110. General Biology	4	0	
Bio. 120. General Zoology	0	4	
Chem. 101-102. General Chemistry	4	4	
Eng. 101-102. Reading and Composition.....	3	3	
Hth. 200. Personal and Community Health.....	0	2	
Math. 125-126. Introduction to College Mathematics.....	3	3	
Spch. 200. Oral Communication	2	0	
Basic Studies Requirements in Physical Education.....	1	1	
	<hr/>	<hr/>	
	17	17	

SOPHOMORE YEAR

Chem. 235-236. Organic Chemistry	4	4	
Eng. 233-234. Introduction to Literature.....	3	3	
Hist. 233-234. United States History.....	3	3	
Psy. 231-232. General Psychology	3	3	
Basic Studies Requirements in Physical Education.....	1	1	
Electives	<hr/>	<hr/>	
	16	16	

JUNIOR YEAR

Bio. 320. Comparative Anatomy of Vertebrates.....	0	4	
Bio. 330. Genetics	4	0	
Chem. 355. Qualitative Analysis	4	0	
Eco. 230. Principles of Economics.....	0	3	
Phys. 121-122. General Physics	4	4	
Soc. 139. Principles of Sociology.....	3	0	
Electives	<hr/>	<hr/>	
	16	16	

SENIOR YEAR

Art 200. Art in General Culture.....	3	0	
Bio. Elective	4	4	
Chem. 356. Quantitative Analysis (or Chem. 485. Physical Chemistry)	0	4	
Mus. 200. Music in General Culture.....	0	3	
Electives	<hr/>	<hr/>	
	16	16	

Four-Year Pre-Dental Program

Pre-dental students who wish to complete the requirements for the Bachelor of Science degree are advised to follow the program of courses outlined for pre-medical students. Most dental schools strongly recommend that students complete the bachelor's degree program before admission to dental school. The student should ascertain the admission requirements from the dental school of his choice and choose the specific courses to meet these requirements.

Students interested in the four-year Pre-Dental Program should consult Dr. J. Emmert Ikenberry, 102 Burruss Hall.

Two-Year Pre-Nursing Program

The first two years of a program leading to the degree of Bachelor of Science in Nursing may be completed at Madison College and the remainder of the period of study at the University of Virginia. Following the first or second academic year at Madison, students will attend a summer session at the University, which is designed to give an insight into actual nursing practice. A separate application for admission to the School of Nursing, University of Virginia, must be made by the student after completion of the freshman year at Madison. Any question regarding the last two years should be directed to the Chairman of Admissions, School of Nursing, University of Virginia, Charlottesville, Virginia. (No transfer students will be admitted to this program.)

Students interested in the two-year Pre-Nursing Program should consult Mr. Norlyn Bodkin, 202 Burruss Hall.

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 110. General Biology	4	0	
Bio. 120. General Zoology	0	4	
Chem. 101-102. General Chemistry	4	4	
Eng. 101-102. Reading and Composition.....	3	3	
Hist. 233-234. United States History.....	3	3	
Basic Studies Requirement in Physical Education.....	1	1	
		<hr/>	<hr/>
		15	15

SOPHOMORE YEAR

Bio. 270. Human Physiology	0	3
Bio. 280. General Microbiology	4	0
Bio. 290. Human Anatomy	4	0
Eng. 233-234. Introduction to Literature.....	3	3
H. E. 180. Elementary Nutrition	0	3
Psy. 231-232. General Psychology	3	3
Soc. 139. Principles of Sociology	3	0
Soc. 250. Social Problems	0	3
Basic Studies Requirement in Physical Education.....	1	1
	<hr/>	<hr/>
	18	16

Four-Year Program for a Major in General Science

This program is a divisional major in General Science. It is designed for prospective high school science teachers of general science, and meets all requirements for a teacher's certificate with endorsement to teach general science. Courses can be chosen to meet the requirements for endorsement to teach at least one of the four areas of science represented in the program.

The requirements for a major in General Science are as follows:

1. At least eight (8) semester hours in each of the departments of Biology, Chemistry, Geology and Physics.
2. Mathematics 125-126 (Introduction to College Mathematics).
3. Science 490 (Seminar for Science Teachers).
4. Other courses in Biology, Chemistry, Geology, Physics, to total forty-eight (48) hours in science courses.

A minor in General Science includes one year or six (6) credits in each of three of the following: biology, chemistry, geology, or physics. Two (2) semester hours of Science 490 are also required if the student wishes to be recommended for certification to teach science in high school.

Students interested in a major in General Science should consult Dr. J. Emmert Ikenberry, 102 Burruss Hall.

Four-Year Program for a Major in General Science

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Eng. 101-102. Reading and Composition.....	3	3	
Math. 125-126. Introduction to College Mathematics....	3	3	
Spch. 200. Oral Communication	0	2	
Basic Studies Requirement in Physical Education.....	1	1	
Science Electives	4	4	
Science Electives	4	4	
Electives	1	0	
		<hr/>	<hr/>
		16	17

SOPHOMORE YEAR

Art 200. Art in General Culture.....	0	3	
Eng. 233-234. Introduction to Literature.....	3	3	
Hth. 200. Personal and Community Health.....	0	2	
Mus. 200. Music in General Culture.....	3	0	
Psy. 233-234. Human Growth and Development.....	3	3	
Basic Studies Requirement in Physical Education.....	1	1	
Science Electives	—	—	
		<hr/>	<hr/>
		16	16

JUNIOR YEAR

Hist. 233-234. United States History.....	3	3	
Ed. 360. Foundations of Curriculum.....	0	3	
Ed. 370. Methods and Materials in Teaching in the Secondary School	3	0	
Science Electives	4	4	
Electives	—	—	
		<hr/>	<hr/>
		16	16

SENIOR YEAR

Ed. 470. History and Philosophy of Educational Thought..	0	3	
Ed. 480. Directed Teaching	0	8	
Sci. 490. Seminar for Science Teachers.....	2	0	
Electives	—	—	
		<hr/>	<hr/>
		16	16

Divisional Science Courses

In addition to the course offerings of the science departments, the Division of the Natural Sciences offers the following interdepartmental courses:

PHYSICAL SCIENCE 110. *General Physical Science* (I or II; 3, 2), 4 credits.

A course designed to help students gain a better understanding and appreciation of their physical environment. Emphasis will be given to the background and development of some of the important concepts and ideas in the fields of astronomy, chemistry, geology, and physics. Related laboratory work is included.

SCIENCE 310. *Science in the Elementary School* (I or II; 3, 2), 4 credits.

A science course which deals with the methods, materials, and literature of biological and physical science in the elementary school. The laboratory work consists of activities selected jointly by the students and the instructors on the basis of value for elementary school teaching.

SCIENCE 490 B-C-G-P. *Seminar for Science Teachers* (I or II; 0, 2), 1 credit.

B-Biology; C-Chemistry; G-Geology; P-Physics.

Centers about problems encountered in teaching general science, biology, chemistry, physics, and geology. Students will work on selected problems in these fields using reports, discussions, demonstrations, audio-visual aids, and other instructional materials.

PHYSICAL SCIENCE 510. *Earth Science* (Summer; 3, 0), 3 credits.

A course designed to familiarize the graduate student with the basic aspects of most branches of geology. Emphasis is upon materials and structure of the earth, and how rock units are shaped into their scenic expression.

PHYSICAL SCIENCE 520. *Matter and Energy* (Summer; 3, 0), 3 credits.

This course is intended to give graduate students planning to teach in the elementary school an understanding of one of the major physical science problems facing mankind. Emphasis is placed on matter and energy as unifying concepts in the physical sciences. The course is taught jointly by staff members of the Chemistry and Physics Departments.

DEPARTMENT of Biology

DR. J. E. DAVIS, JR., *Head of the Department*

Professors DAVIS, FERRY, GRIMM, JENKINS, and TRELAWNY

Associate Professor E. FISHER and JONES

Assistant Professors BODKIN, M. GORDON, GRAVES, HEADING, and SILVER

Instructor GARRISON

The Department of Biology offers programs designed primarily to provide fundamental training in the biological sciences as well as pre-professional preparation for the medical and para-medical sciences.

The minimum requirement for an undergraduate major in Biology is thirty (30) semester hours beyond the Basic Studies requirement. In order that all majors may become conversant with the modern trends and concepts of biology, courses are required in the areas of (1) cellular and regulatory biology, (2) genetics and developmental biology, and (3) ecological and evolutionary biology. Sufficient electives are available to afford balanced programs of studies in the significant aspect of both plant and animal life to meet the individual needs of students.

The following courses are required for the major in Biology: Biology 110 (General Biology), Biology 120 (General Zoology), Biology 130 (General Botany), Biology 230 (General Ecology), Biology 330 (Genetics), Biology 403 (History of Biology), Biology 404 (Evolution), and Biology 550 (Cellular Physiology), or Biology 555 (Introduction to Plant Physiology). All biology majors are required to complete Chemistry 101-102 (General Chemistry), Physics 110 (Physics in the Modern World), and Psychology 231-232 (General Psychology) or Psychology 233-234 (Human Growth and Development).

The minimum requirement for a minor in Biology is twenty-six (26) semester hours including those required biology courses listed for the major.

Students seeking teacher certification in secondary education should take the following courses: Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Education 370 (Methods and Materials in Teaching in the Secondary School), Education 470 (History of Philosophy of Educational Thought), and Education 480 (Directed Teaching) in the senior year.

Students interested in a major in Biology should consult the Head of the Department, 106 Burruss Hall.

Four-Year Program for a Major in Biology

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 110. General Biology	4	0	
Bio. 120. General Zoology	0	4	
Chem. 101-102. General Chemistry	4	4	
Eng. 101-102. Reading and Composition.....	3	3	
Hth. 200. Personal and Community Health.....	0	2	
Math. 125. Introduction to College Mathematics.....	3	0	
Math. 126. Introduction to College Mathematics (or Math. 220. Elementary Statistics).....	0	3	
Spch. 200. Oral Communication	2	0	
Basic Studies Requirement in Physical Education.....	1	1	
	<hr/>	<hr/>	
	17	17	

SOPHOMORE YEAR

Art 200. Art in General Culture.....	3	0	
Bio. 130. General Botany	4	0	
Bio. 230. General Ecology	0	3	
Eng. 233-234. Introduction to Literature.....	3	3	
Hist. 233-234. United States History.....	3	3	
Mus. 200. Music in General Culture.....	0	3	
Psy. 231-232. General Psychology (or Psy. 233-234, Human Growth and Development).....	3	3	
Basic Studies Requirement in Physical Education.....	1	1	
	<hr/>	<hr/>	
	17	16	

JUNIOR YEAR

Bio. 330. Genetics	4	0	
Phys. 110. Physics in the Modern World.....	0	4	
Basic Studies Requirement in Social Science.....	3	3	
Electives	9	9	
	<hr/>	<hr/>	
	16	16	

SENIOR YEAR

Bio. 403. History of Biology.....	2	0	
Bio. 404. Evolution	0	2	
Bio. 550. Cellular Physiology (or Bio. 555. Introduction to Plant Physiology)	4	0	
Electives	9	13	
	<hr/>	<hr/>	
	15	15	

Four-Year Program for a Major in Biology Qualifying for the Secondary Collegiate Professional Certificate

FRESHMAN YEAR

<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 110. General Biology	4	0
Bio. 120. General Zoology	0	4
Chem. 101-102. General Chemistry	4	4
Eng. 101-102. Reading and Composition.....	3	3
Hth. 200. Personal and Community Health.....	0	2
Math. 125. Introduction to College Mathematics.....	3	0
Math. 126. Introduction to College Mathematics (or Math. 220. Elementary Statistics).....	0	3
Spch. 200. Oral Communication	2	0
Basic Studies Requirement in Physical Education.....	1	1
	<hr/> 17	<hr/> 17

SOPHOMORE YEAR

Art 200. Art in General Culture.....	3	0
Bio. 130. General Botany	4	0
Bio. 230. General Ecology	0	3
Eng. 233-234. Introduction to Literature	3	3
Hist. 233-234. United States History	3	3
Mus. 200. Music in General Culture.....	0	3
Psy. 233-234. Human Growth and Development.....	3	3
Basic Studies Requirement in Physical Education.....	1	1
	<hr/> 17	<hr/> 16

JUNIOR YEAR

Bio. 330. Genetics	4	0
Phys. 110. Physics in the Modern World.....	0	4
Basic Studies Requirement in Social Science.....	3	3
Ed. 360. Foundations of Curriculum	3	0
Electives	5	9
	<hr/> 15	<hr/> 16

SENIOR YEAR

Bio. 403. History of Biology.....	2	0
Bio. 404. Evolution	0	2
Bio. 550. Cellular Physiology (or Bio. 555. Introduction to Plant Physiology)	4	0
Ed. 370. Methods and Materials in Teaching in the Secondary School	3	0
Ed. 470. History and Philosophy of Educational Thought..	0	3
Ed. 480. Directed Teaching	0	8
Electives	9	2
	<hr/> 15	<hr/> 15

Description of Courses

BIOLOGY 110. *General Biology* (I or II; 3, 2), 4 credits.

A beginning course which stresses the fundamental concepts of life. Consideration is given to the organization and functions of living bodies at the molecular, cellular, tissue, organ, systemic, and organismal levels. The principles of genetics are introduced. Required of all students.

BIOLOGY 120. *General Zoology* (I or II; 2, 4), 4 credits.

A general zoology course with emphasis on the study of evolutionary development, morphology, physiology, and ecology of representatives of the major phyla of the animal kingdom. Required of all biology majors and minors. *Prerequisite: Bio. 110.*

BIOLOGY 130. *General Botany* (I or II; 2, 4), 4 credits.

A course involving a study of the development, structure, and function of plants, and their relationships to other organisms. Required of all biology majors and minors. *Prerequisite: Bio. 110.*

BIOLOGY 230. *General Ecology* (I or II; 2, 3), 3 credits.

A study of basic ecological principles and concepts of the abiotic and biotic components of fresh-water and terrestrial environments with emphasis on the nature of ecosystems, communities, and populations. Required of all majors. *Prerequisites: Bio. 110, Bio. 120, and Bio. 130; one of which may be taken concurrently.*

BIOLOGY 270. *Human Physiology* (I or II; 2, 2), 3 credits.

Emphasis is placed on the function of the muscular, circulatory, digestive, excretory, and endocrine systems of the human body. (Credit will not be given for students majoring in biology.)

BIOLOGY 280. *General Microbiology* (I or II; 2, 4), 4 credits.

Designed to give the student a general understanding and appreciation of bacteria and related fungi. This is a basic course for pre-nursing, home economics, and pre-medical technology students, and may be used as an elective by students in other programs. *Prerequisite: Bio. 110.*

BIOLOGY 290. *Human Anatomy* (I or II; 2, 4), 4 credits.

An introduction to the study of human anatomy with emphasis on the skeletal, muscular, and circulatory systems. The first part of the course deals with the basic plan of each body system; the second part deals with the various aspects of regional anatomy through the dissection of the cat, charts, models, and 3-dimensional slides of a dissected cadaver. (Credit will not be given for students majoring in biology.)

BIOLOGY 310. *Comparative Anatomy and Physiology of Invertebrates.* (I; 2, 4), 4 credits.

A systematic study of the various invertebrate phyla with primary emphasis on comparative morphology and physiology. *Prerequisites: Bio. 110-120.*

BIOLOGY 320. *Comparative Anatomy of Vertebrates* (II; 2, 4), 4 credits.

An integrated course designed to present gross anatomy and embryonic development of vertebrate organ systems in a comparative method. *Prerequisites: Bio. 110-120.*

BIOLOGY 330. *Genetics* (I or II; 2, 4), 4 credits.

A study of the major principles of biological inheritance through class discussions and laboratory experiments. (Required of all majors in biology.)

BIOLOGY 340. *Morphology and Anatomy of Vascular Plants* (I or II; 2, 4), 4 credits.

A detailed study of the comparative morphology and anatomy of tracheophytes. *Prerequisite: Bio. 110.*

BIOLOGY 360. *Biological Instrumentation* (I and II; 1, 3), 2 credits.

A study of the principles and techniques in the use of laboratory equipment and apparatus. Practical laboratory application will be applied to such equipment as the Gilson respirometer, colorimeters, electrophoresis, chromatography, and the radiation counter. Some work will be done in blood analysis and urinalysis.

BIOLOGY 403. *History of Biology* (I; 2, 0), 2 credits.

A survey of the impact of biological thought, progress, and philosophy on the historical development of our civilization. (Required of all majors in biology.)

BIOLOGY 404. *Evolution* (II; 2, 0), 2 credits.

An examination of the place of theoretical thought in biology. The concepts of phylogenetic relationships and the mechanisms of organic change as expressed through the principles of organic evolution will be stressed. (Required of all majors in biology.)

BIOLOGY 416. *Vertebrate Embryology* (II; 2, 4), 4 credits.

An introduction to the comparative developmental anatomy of the vertebrates, including the human. Recommended for students who are majoring or minoring in biology, students preparing to teach, and for students preparing for medicine, medical technology, or nursing. *Prerequisite: Bio. 110-120.*

BIOLOGY 420. *Plant Taxonomy* (I or II; 2, 2), 3 credits.

A study of the identification, classification, and ecological relationships of plants, with emphasis on field investigation.

BIOLOGY 450. *Micro-Technique* (I or II; 1, 4), 3 credits.

A course designed to introduce the student to histological and cytological methods in the preparation of animal and plant materials for microscopical study.

BIOLOGY 497-498. *Problems in Biology* (I and II), 2 credits.

An undergraduate research course in one of the fields of biology. (Open only with permission of the department head, to seniors who have adequate preparation.)

BIOLOGY 505. *Natural History* (Summers; 2, 2), 3 credits.

An integrated course in field biology designed to acquaint students with local plants and animals in both terrestrial and aquatic habitats. (A course restricted to graduate students majoring in elementary education with a minor in general science. (Cannot be counted toward any degree with a major in biology.)

BIOLOGY 510. *Animal Ecology* (I or II; 2, 3), 3 credits.

A course designed to acquaint students with the fundamental relationships existing between animals and their environment. Emphasis will be placed on the dynamic aspect of ecology and its importance to mankind. The laboratory will consist of group discussion sessions and selected field trips throughout the Shenandoah regions.

BIOLOGY 520. *Plant Ecology* (I or II; 2, 3), 3 credits.

A study of the distribution and association of plants in relations to their physical and biological environments. Concepts include migration, invasion, competition, successions and climax as these influence environmental change, conservation and wildlife. (Open only by permission of the instructor.)

BIOLOGY 530. *Vertebrate Physiology* (I or II; 2, 4), 4 credits.

A study of vertebrate systemic function. Particular emphasis will be given to the quantitative interpretation of muscle contraction and the nerve impulse. Laboratory exercises will involve the use of vertebrate forms to demonstrate specific functional phenomena.

BIOLOGY 540. *Advanced Microbiology* (I or II; 2, 4), 4 credits.

This course covers the methods for the selective cultivation and isolation of bacteria and fungi, together with theoretical and applied aspects which relate to the biochemical and serological studies required for their identification. The architecture, classification, and cultivation of viruses is also included. *Prerequisite: Bio. 280 (or consent of the instructor).*

BIOLOGY 550. *Cellular Physiology* (I or II; 3, 3), 4 credits.

A study of physico-chemical relationships as they apply to cell function.

BIOLOGY 555. *Introduction to Plant Physiology* (I or II; 2, 4), 4 credits.

Practical aspects of fundamental life processes of plants involving physiological structure and environmental relationships. *Prerequisites: Bio 200 and Chem. 101-102 (or equivalent).*

BIOLOGY 560. *Systematic Entomology* (I or II; 2, 3), 3 credits.

A laboratory and field study of the common insects, their morphology, life histories and their relation to plants, animals and man. Collection identification, preservation of local insects by standard methods.

BIOLOGY 570. *Cryptogamic Botany* (I or II; 2, 4), 4 credits.

Comparative morphology, life histories, ecology and taxonomy of representative algae, fungi and bryophytes.

BIOLOGY 580. *Vertebrate Histology* (I or II; 2, 4), 4 credits.

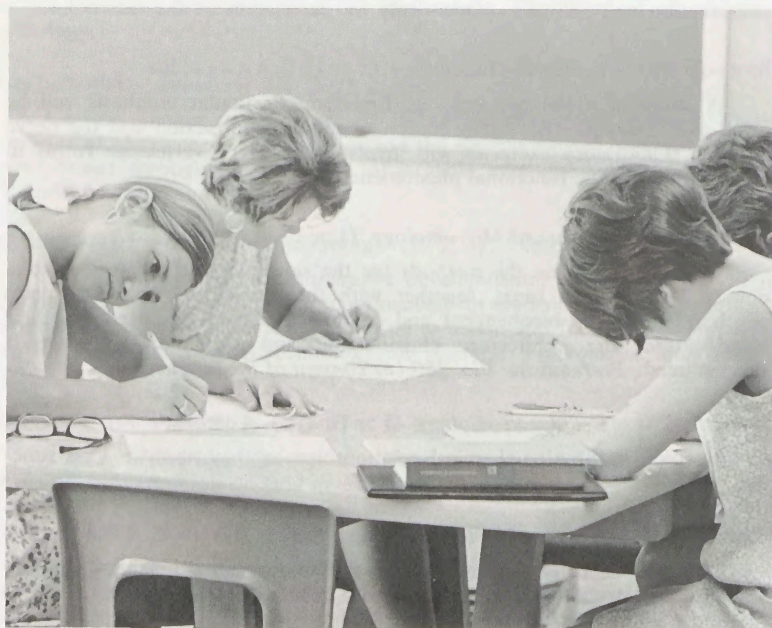
A comparative study of the microscopic anatomy of vertebrates.

BIOLOGY 590. *Advanced Embryology* (I or II; 3, 0), 3 credits.

A review of the modern problems of developmental biology with emphasis given to the topics of cytodifferentiation, protein synthesis, enzyme regulation and the interplay between DNA and RNA.

BIOLOGY 595. *Economic Entomology* (I or II; 2, 3), 3 credits.

The biology and control of the major insect pests of man and his crops, exclusive of insects of medical importance. *Prerequisite: Bio 560 (or equivalent).*



DEPARTMENT of Chemistry

DR. WILBERT CHAPPELL, *Head of the Department*

Professors CHAPPELL and COOL

Associate Professors CASALI and SIMMONS

Assistant Professor PALOCSAY

The Department of Chemistry offers a program designed to provide the student with the theoretical and practical instruction in chemistry and related areas necessary for pursuit of graduate study in chemistry or for a career in industry or in teaching.

The minimum requirement for a major in Chemistry is thirty (30) semester hours, which must include the following: Chemistry 101-102 (General Chemistry); either Chemistry 235-236 (Organic Chemistry) or Chemistry 237 (Organic Chemistry) and Chemistry 238 (Bio-chemistry); Chemistry 355 (Qualitative Chemistry); Chemistry 356 (Quantitative Chemistry); Chemistry 485-486 (Physical Chemistry). For a major in Chemistry, Mathematics 235-236 (Analytic Geometry and Calculus) and Physics 121-122 (General Physics) are also required.

The minimum requirement for a minor in Chemistry is eighteen (18) semester hours which will be selected from Chemistry 101-102 (General Chemistry); Chemistry 235-236 (Organic Chemistry); Chemistry 237 (Organic Chemistry); Chemistry 238 (Biochemistry); Chemistry 355 (Qualitative Chemistry); Chemistry 356 (Quantitative Chemistry).

Students seeking teacher certification in secondary education should take the following courses: Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Education 370 (Methods and Materials in Teaching in the Secondary School), Education 470 (History and Philosophy of Educational Thought), and Education 480 (Directed Teaching) in the senior year.

Students interested in a program in the Department of Chemistry should consult Dr. Wilbert Chappell, 313 Burruss Hall.

Four-Year Program for a Major in Chemistry

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	0	3	
Eng. 101-102. Reading and Composition.....	3	3	
Chem. 101-102. General Chemistry	4	4	
Hist. 233-234. United States History.....	3	3	
Math. 125-126. Introduction to College Mathematics.....	3	3	
Spch. 200. Oral Communication	2	0	
Basic Studies Requirement in Physical Education.....	1	1	
		<hr/>	<hr/>
		16	17

SOPHOMORE YEAR

Bio. 110. General Biology	4	0	
Bio. 120. General Zoology	0	4	
Chem. 235-236. Organic Chemistry (or Chem. 237-238. Organic Chemistry; Biochemistry).....	4	4	
Eng. 233-234. Introduction to Literature.....	3	3	
Math. 235-236. Analytic Geometry and Calculus.....	5	5	
Basic Studies Requirement in Physical Education.....	1	1	
		<hr/>	<hr/>
		17	17

JUNIOR YEAR

Chem. 355. Qualitative Analysis	4	0	
Chem. 356. Quantitative Analysis	0	4	
Hth. 200. Personal and Community Health.....	0	2	
Mus. 200. Music in General Culture.....	3	0	
Phys. 121-122. General Physics	4	4	
Basic Studies Requirement in Social Science.....	3	3	
Electives	2	2	
		<hr/>	<hr/>
		16	15

SENIOR YEAR

Chem. 485-486. Physical Chemistry	4	4	
Psy. 231-232. General Psychology	3	3	
Electives in Chemistry.....	3	4	
Electives	5	4	
		<hr/>	<hr/>
		15	15

Four-Year Program for a Major in Chemistry Qualifying for the Secondary Collegiate Professional Certificate

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Biol. 110. General Biology	0	4	
Chem. 101-102. General Chemistry	4	4	
Eng. 101-102. Reading and Composition.....	3	3	
Hist. 233-234. United States History.....	3	3	
Math. 125-126. Introduction to College Mathematics.....	3	3	
Spch. 200. Oral Communication	2	0	
Basic Studies Requirement in Physical Education.....	1	1	
	<hr/>	<hr/>	
	16	18	

SOPHOMORE YEAR

Chem. 235-236. Organic Chemistry	4	4	
Math. 235-236. Analytic Geometry and Calculus.....	5	5	
Phys. 121-122. General Physics	4	4	
Psy. 233-234. Human Growth and Development.....	3	3	
Basic Studies Requirement in Physical Education.....	1	1	
	<hr/>	<hr/>	
	17	17	

JUNIOR YEAR

Art 200. Art in General Culture.....	3	0	
Eng. 233-234. Introduction to Literature.....	3	3	
Chem. 355. Qualitative Analysis	4	0	
Chem. 356. Quantitative Analysis	0	4	
Chem. 485-486. Physical Chemistry	4	4	
Hth. 200. Personal and Community Health.....	2	0	
Mus. 200. Music in General Culture	0	3	
Electives	0	2	
	<hr/>	<hr/>	
	16	16	

SENIOR YEAR

Biol. 120. General Zoology	4	0	
Educ. 360. Foundations of Curriculum.....	3	0	
Educ. 370. Methods and Materials in Teaching in the Secondary School	0	3	
Educ. 470. History and Philosophy of Educational Thought	0	3	
Educ. 480. Directed Teaching	0	8	
Science 490C. Seminar for Science Teachers.....	1	0	
Basic Studies Requirement in Social Science.....	3	3	
Electives	4	0	
	<hr/>	<hr/>	
	15	17	

Description of Courses

CHEMISTRY 101-102. *General Chemistry* (I and II; 3, 2), 8 credits. Year course.

A course in fundamental chemical principles based on modern concepts of matter.

CHEMISTRY 110. *General Chemistry* (I or II; 3, 2), 4 credits.

Some of the fundamental principles, laws and applications of chemistry are considered. Material is selected from the areas of inorganic chemistry, organic chemistry and biochemistry. This is a terminal course in chemistry and is intended for students who *do not plan* to enroll in other chemistry courses.

CHEMISTRY 235-236. *Organic Chemistry* (I and II; 3, 3), 8 credits.

The chemistry of organic compounds is studied in the light of modern theories of their structure and behavior, with emphasis on spectroscopic and other modern methods of structure determination. The laboratory work comprises a study of the preparation and properties of typical compounds, as well as modern separation techniques, such as gas chromatography and thin-layer chromatography. *Prerequisite: Chem. 101-102.*

CHEMISTRY 237. *Organic Chemistry* (I; 3, 3), 4 credits.

An introduction to the study of organic compounds, with emphasis on the chemistry of functional groups, including methods of preparation and interconversions. Aliphatic and aromatic compounds are discussed in an integrated manner to underline their essential similarity. The laboratory work will include training in the techniques of organic chemistry, preparation of compounds, and some organic qualitative analysis. *Prerequisite: Chem. 101-102.*

CHEMISTRY 238. *Biochemistry* (II; 3, 3), 4 credits.

A brief survey of the principal constituents of living cells—proteins, carbohydrates, lipids, and nucleic acids—with emphasis on their synthesis and transformations *in vivo*. Intermediary metabolism and protein replication will be stressed. The laboratory work will comprise experiments demonstrating some of the pertinent reactions, including those of analytical value. *Prerequisite: Chem. 235 or Chem. 237.*

CHEMISTRY 336. *Qualitative Organic Analysis* (II; 1, 5), 3 credits.

Modern theories and reactions of organic chemistry are applied toward the identification of organic compounds. Instrumental methods including gas chromatography and spectral analysis will be used. *Prerequisite: Chem. 235-236.*

CHEMISTRY 355. *Qualitative Analysis* (I; 2, 4), 4 credits.

A course in inorganic qualitative analysis. A study is made of more important cations and anions. *Prerequisite: Chem. 101-102.*

CHEMISTRY 356. *Quantitative Analysis* (II; 2, 4), 4 credits.

A course in inorganic quantitative analysis. The standard methods of gravimetric and volumetric procedure are emphasized. *Prerequisite: Chem. 355.*

CHEMISTRY 357. *Analytical Chemistry* (I; 1, 4), 3 credits.

An introduction to microtechniques and instrumental methods. *Prerequisite: Chem. 356.*

CHEMISTRY 485-486. *Physical Chemistry* (I and II; 3, 3), 8 credits.

A study of the properties, behavior, and structure of matter including the laws of chemical and physical reactions and the theories and principles associated with matter and its behavior. *Prerequisites: Chem. 101-102; Chem. 235-236 or Chem. 355-356; and Math. 235-236.*

CHEMISTRY 490. *Advanced Inorganic Chemistry* (II; 3, 3), 3 credits.

A study of selected topics in the field of advanced inorganic chemistry. The course will include a theoretical treatment of the structure, properties, and reactions of the elements and some of their compounds. *Prerequisites: Chem. 101-102 and Chem. 355-356.*

CHEMISTRY 497-498. *Problems in Chemistry.* 1-3 credits.

An undergraduate research course in one of the fields of chemistry. Gives the capable student an opportunity to do independent work in chemistry, under faculty supervision. Open, with permission of the Department, to advanced students in the College who have adequate preparation.

CHEMISTRY 501. *Advanced Inorganic Chemistry.* 3 credits.

A course in fundamental concepts which deals with the relation of structure to properties, the periodic system, typical reactions and applications of physical chemical principles to inorganic systems.

CHEMISTRY 505. *Theoretical Chemistry.* 3 credits.

This course deals with some of the fundamental concepts, laws, theories, and philosophies of chemistry. Considerable emphasis is placed on the practical applications of various chemical laws and concepts. To meet the interests and needs of the student, work will be chosen from the areas of Physical Chemistry, Electrochemistry, and Thermodynamics.

CHEMISTRY 506. *Theoretical Chemistry.* 3 credits.

A continuation of Chemistry 505.

CHEMISTRY 510. *Physiological Chemistry.* 3 credits.

This course includes a study of foodstuffs, their digestion and metabolism, respiration, body secretions and excretions, the blood, urine, calorimetry, nutrition, endocrine organs and vitamins.

CHEMISTRY 520. *Recent Developments in Chemistry.* 3 credits.

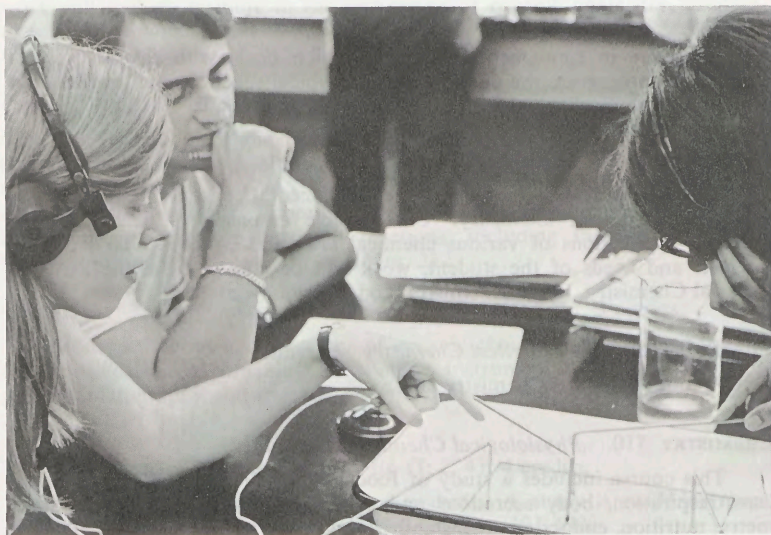
A study of recent developments in such areas of chemistry as solvents, metals and alloys, plastics, petrochemicals, silicones, nuclear chemistry, medicinals, rubber and synthetic polymers, paints, detergents, textiles, etc. The material will be selected and taught in such manner that it will be of especial interest and use to teachers of biology, chemistry, and general science.

CHEMISTRY 530. *Advanced Organic Preparations.* 3 credits.

Emphasis on advanced laboratory preparations and techniques. Considerable time is devoted to theories and mechanisms of reactions in organic chemistry.

CHEMISTRY 540. *Advanced Topics.* 3 credits.

Mostly laboratory work at an advanced level together with conferences and independent reading, adapted to the needs of the individual student.



DEPARTMENT of Geology

MR. WILBUR T. HARNSBERGER, *Head of the Department*

Associate Professors FARMER and HARNSBERGER

Assistant Professor H. CAMPBELL

The Department of Geology offers a program designed to provide a broad basis in science, mathematics, and the humanities, as well as a thorough preparation in applied geology intended to be preparatory for teaching, graduate work, or employment in industry.

The minimum requirement for a major in Geology is twenty-eight (28) semester hours including Geology 110 (Physical Geology), Geology 120 (Historical Geology), Geology 235-236 (Mineralogy and Petrology), Geology 535-536 (Paleobiology), and six (6) semester hours subject to the approval of the Head of the Department. All students majoring in Geology are required to complete Biology 110 (General Biology) and a minimum of four (4) semester hours in chemistry and physics. It should be noted that students planning to teach geology must earn an additional two (2) semester hours in Science 490 (Seminar for Science Teachers).

The minimum requirement for a minor in Geology is eighteen (18) semester hours including Geology 110 (Physical Geology), and Geology 120 (Historical Geology).

Students seeking teacher certification in earth science should take the following courses: Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Education 370 (Methods and Materials in Teaching in the Secondary School), Education 470 (History and Philosophy of Educational Thought), and Education 480 (Directed Teaching) in the senior year.

Students interested in a program in geology should consult Mr. Wilbur T. Harnsberger, 207 Buruss Hall.

Four-Year Program for a Major in Geology

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 110. General Biology	4	0	
Art 200. Art in General Culture.....	0	3	
Eng. 101-102. Reading and Composition.....	3	3	
Geol. 110. Physical Geology	4	0	
Geol. 120. Historical Geology	0	4	
Hth. 200. Personal and Community Health.....	0	2	
Math. 125-126. Introduction to College Mathematics.....	3	3	
Basic Studies Requirement in Physical Education.....	1	1	
	<hr/>	<hr/>	
	15	16	

SOPHOMORE YEAR

Chem. 101-102. General Chemistry	4	4	
Eng. 233-234. Introduction to Literature.....	3	3	
Geol. 235. Mineralogy	4	0	
Geol. 236. Petrology	0	4	
Hist. 233-236. United States History.....	3	3	
Basic Studies Requirement in Physical Education	1	1	
Basic Studies Requirement in Speech	0	2	
	<hr/>	<hr/>	
	15	17	

JUNIOR YEAR

Geol. 535-536. Paleobiology	3	3	
Mus. 200. Music in General Culture.....	3	0	
Phys. 121-122. General Physics	4	4	
Basic Studies Requirement in Social Science.....	3	3	
Electives in Geology	3	3	
Electives	0	4	
	<hr/>	<hr/>	
	16	17	

SENIOR YEAR

Psy. 233-234. Human Growth and Development (or Psy. 231-232. General Psychology)	3	3	
Electives in Geology	3	3	
Electives	10	10	
	<hr/>	<hr/>	
	16	16	

Description of Courses

GEOLOGY 110. *Physical Geology* (I or II; 3, 2), 4 credits.

An introduction to the various agencies and processes at work upon and within the earth and their effects. The composition and structure of the earth.

GEOLOGY 120. *Historical Geology* (II; 3, 2), 4 credits.

An introduction to the history of the earth from its origin to the present. Physical events and the evolution of life are emphasized through a study of fossils.

GEOLOGY 235. *Mineralogy* (I; 2, 4), 4 credits.

An introduction to the common minerals of the earth's crust. The origin, classification, and distribution of common rock types are discussed, with emphasis on hand specimen identification. *Prerequisite: Geol. 110.*

GEOLOGY 236. *Petrology* (II; 2, 4), 4 credits.

An introduction to the common rocks of the earth's crust. The origin, classification, and distribution of common rock types are discussed, with emphasis on hand specimen identification. *Prerequisite: Geol. 235.*

GEOLOGY 255. *Regional Geology* (I; 3, 0), 3 credits.

The major physiographic and geologic provinces of the world are considered, with emphasis on the geologic evolution of North America. *Prerequisite: Geol. 110 and Geol. 120.*

GEOLOGY 278. *Stratigraphy* (II; 2, 2), 3 credits.

The principles of stratigraphy and sedimentation. Sedimentary rock classification, physical and biostratigraphic methods of correlation, and regional distribution of sedimentary rock types and ages are considered. *Prerequisite: Geol. 110 and Geol. 120.*

GEOLOGY 285. *Geomorphology* (I; 2, 2), 3 credits.

The description, classification, analysis, origin, and evolution of land forms. The physical and chemical processes that have formed the present landscape. Advanced interpretation of topographic maps. *Prerequisite: Geol. 110.*

GEOLOGY 349. *Economic Geology* (I; 2, 2), 3 credits.

Classification, origin, distribution and mining of mineral resources. Special emphasis on the uses of important non-metallic and metallic mineral resources. Modern methods of exploration in discovering ore bodies are described. *Prerequisite: Geol. 110 and Geol. 120.*

GEOLOGY 365. *Structural Geology* (II; 2, 2), 3 credits.

Major structures of the earth's crust. The causes and results of mountain building processes. Interpretation of geologic maps. *Prerequisites: Geol. 110 and Geol. 120.*

GEOLOGY 497-498. *Problems in Geology* (I and II; 0, 2 or 4), 1 or 2 credits.

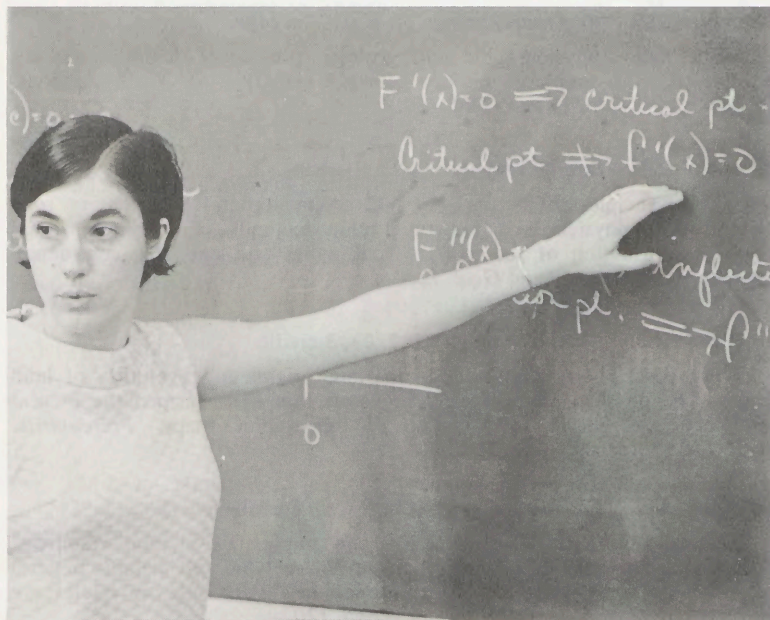
An undergraduate research course in one of the fields of geology. Open, with permission of the department, to advanced students who have adequate preparation.

GEOLOGY 535. *Paleobiology I* (I; 2, 2), 3 credits.

The fossil history of invertebrate animals is emphasized. The principles of taxonomy and evolution are considered. Protista through Bryozoa (Ectoprocta). *Prerequisites: Bio. 110 or Geol. 110 or Geol. 120.*

GEOLOGY 536. *Paleobiology II* (II; 2, 2), 3 credits.

A continuation of Geology 535. Brachiopods through vertebrates. *Prerequisite: Geol. 535.*



DEPARTMENT of Mathematics

DR. J. EMMERT IKENBERRY, *Head of the Department*

Professors G. FISHER, HANSON and E. IKENBERRY

Associate Professor MULLENEX

Assistant Professors BEASLEY, CATHCART, D. FISHER, KEMPTON, LAZORACK, LEPERA, SERENO, SPRESSER, TAYLOR, and ZIEGENFUS

Instructors AUSTIN, CLARKE, L. TWYMAN, and M. TWYMAN

The Mathematics Department offers programs of study which lead to careers in teaching mathematics in the secondary schools and in junior colleges, to careers as mathematicians in industry and in the government, and to further study in graduate school. The Department also recognizes its responsibility in providing courses for the non-mathematician who needs to make effective use of mathematics in his chosen career.

The minimum requirement for a major in Mathematics is thirty (30) semester hours in mathematics courses numbered above 220. The following courses are required of all majors: Mathematics 235-236 (Analytic Geometry and Calculus) and Mathematics 360 (Linear Algebra). Candidates for the Collegeiate Professional Teaching Certificate must also include Mathematics 350 (Modern Algebra), Mathematics 475 (Fundamental Concepts of Geometry), Mathematics 520 (Foundations of Euclidean Geometry), and Mathematics 505 (Mathematical Statistics I). All others must include Mathematics 385 (Intermediate Calculus), Mathematics 510 (Advanced Calculus I), and Mathematics 530 (Abstract Algebra).

The minimum requirement for a minor in Mathematics is twenty-four (24) semester hours including Mathematics 107-108 (Fundamentals of Mathematics), or Mathematics 135 (Elementary Functions), Mathematics 235-236 (Analytic Geometry and Calculus), Mathematics 350 (Modern Algebra), Mathematics 520 (Foundations of Euclidean Geometry or Mathematics 208 (Intuitive Foundations of Geometry), and electives chosen from courses numbered above 210 to make a total of at least twenty-four (24) semester hours.

Students seeking teacher certification in secondary education should take the following courses: Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Education 370 (Methods and Materials in Teaching in the Secondary School) Education 470 (History of Philosophy of Educational Thought), and Education 480 (Directed Teaching) in the senior year.

Students interested in the program offered by the Department of Mathematics should consult Dr. J. Emmert Ikenberry, 102 Burruss Hall.

Four-Year Program for a Major in Mathematics

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 110. General Biology	4	0	
Eng. 101-102. Reading and Composition	3	3	
Hist. 233-234. United States History	3	3	
Math. 125-126. Introduction to College Mathematics or Math. 135, 235. Elementary Functions; Analytic Geometry and Calculus or Math 235-236. Analytic Geometry and Calculus)	3-5	3-5	
Mus. 200. Music in General Culture	0	3	
Basic Studies Requirement in Physical Education	1	1	
Electives	2	3	
		<hr/>	<hr/>
		16-18	16-18

SOPHOMORE YEAR

Eng. 233-234. Introduction to Literature	3	3	
Phys. 121-122. General Physics	4	4	
Psy. 233-234. Human Growth and Development (or Psy. 231-232. General Psychology)	3	3	
Spch. 200. Oral Communication	2	0	
Basic Studies Requirement in Physical Education	1	1	
Electives in Mathematics	3	5	
		<hr/>	<hr/>
		16	16

JUNIOR YEAR

Art 200. Art in General Culture	0	3	
Hth. 200. Personal and Community Health	2	0	
Math. 350-360. Modern Algebra; Linear Algebra	3	3	
Basic Studies Requirement in Social Science	3	3	
Electives in Mathematics	3	3	
Electives	5	4	
		<hr/>	<hr/>
		16	16

SENIOR YEAR

Electives in Mathematics	3	3	
Electives	13	13	
		<hr/>	<hr/>
		16	16

Four-Year Program for a Major in Mathematics Qualifying for the Secondary Collegiate Professional Certificate

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 110. General Biology	4	0	
Eng. 101-102. Reading and Composition.....	3	3	
Hist. 233-234. United States History.....	3	3	
Math. 125-126. Introduction to College Mathematics (or Math 135, 235. Elementary Functions; Analytic Geometry and Calculus or Math 235-236. Analytic Geometry and Calculus).....	3-5	3-5	
Mus. 200. Music in General Culture.....	0	3	
Basic Studies Requirement in Physical Education.....	1	1	
Electives	2	3	
	<hr/>	<hr/>	
	16	16	

SOPHOMORE YEAR

Eng. 233-234. Introduction to Literature.....	3	3	
Phys. 121-122. General Physics	4	4	
Psy. 233-234. Human Growth and Development.....	3	3	
Spch. 200. Oral Communication	2	0	
Basic Studies Requirement in Physical Education.....	1	1	
Electives in Mathematics.....	3	5	
	<hr/>	<hr/>	
	16	16	

JUNIOR YEAR

Art 200. Art in General Culture.....	0	3	
Ed. 360. Foundations of Curriculum.....	3	0	
Hth. 200. Personal and Community Health.....	2	0	
Math. 350-360. Modern Algebra; Linear Algebra.....	3	3	
Basic Studies Requirement in Social Science.....	3	3	
Electives in Mathematics.....	3	3	
Electives	2	4	
	<hr/>	<hr/>	
	16	16	

SENIOR YEAR

Ed. 370. Methods and Materials in Teaching in the Secondary School	3	0	
Ed. 470. History and Philosophy of Educational Thought..	0	3	
Ed. 480. Directed Teaching	0	8	
Math. 425. Teaching of Secondary Mathematics.....	0	2	
Math. 475. Fundamental Concepts of Geometry.....	3	0	
Math. 520. Foundations of Euclidean Geometry.....	0	3	
Electives	10	0	
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	16	16	

Description of Course

MATHEMATICS 107-108. *Fundamentals of Mathematics* (I and II; 3, 0), 3 credits each semester.

Designed for prospective teachers of the elementary schools and students not majoring in mathematics or science. A development of basic concepts of elementary mathematics, including sets, logic, and binary operations; the natural numbers and their properties; deductive reasoning and the nature of proof; the integers, rational numbers, real numbers and their properties; relations, functions, and graphs.

MATHEMATICS 125-126. *Introduction to College Mathematics* (I and II; 3, 0), 3 credits each semester.

A modern integrated treatment of topics from college algebra and trigonometry with particular emphasis on the study of functions and relations; an introduction to analytic geometry. *Prerequisite:* One entrance unit in algebra and one entrance unit in plane geometry.

MATHEMATICS 135. *Elementary Functions* (I; 3, 0), 3 credits.

A study of algebraic, exponential, logarithmic and trigonometric functions. A student may not have credit for both Mathematics 126 and Mathematics 135. (For freshmen who wish to enroll in Mathematics 235 in the second semester.)

MATHEMATICS 207. *Basic Concepts of Algebra* (I or II; 2, 0), 2 credits.

Basic ideas and structure of algebra, including equations, inequalities, positive and negative numbers, absolute value, graphing of truth sets of equations and inequalities, and examples of other algebraic systems including finite ones. (Required for Elementary Education majors. May not be used to satisfy other Mathematics requirements.)

MATHEMATICS 208. *Intuitive Foundations of Geometry* (I or II; 2, 0), 2 credits.

A study of space, plane, and line as sets of points, considering separation properties and simple closed curves; the triangle, rectangle, circle, sphere, and the other figures in the plane and space considered as sets of points with their properties developed intuitively; the concepts of deduction and the beginning of deductive theory; concepts of measurement in the plane and space, angle measurement, measurement of the circle, volumes of solids; coordinate geometry. (Required for Elementary Education majors. May not be used to satisfy other Mathematics requirements.)

MATHEMATICS 210. *Digital Computer Programming* (I or II; 1, 1), 1 credit.

Digital computer development, flow charting, programming and solving of selected problems using Fortran IV language. Programs written by students will be processed on the IBM 1130 Computer on campus. *Prerequisite:* Math. 125-126 (or equivalent).

MATHEMATICS 220. *Elementary Statistics* (I or II; 3, 0), 3 credits.

An introduction to the basic concepts of statistics including a brief treatment of descriptive statistics; probability; empirical and theoretical frequency distributions; problems of sampling; estimation and testing of hypotheses; regression and correlation. *Prerequisite: Math. 125 or Math. 135.*

MATHEMATICS 235-236. *Analytic Geometry and Calculus* (I and/or II; 5, 0), 5 credits.

A course integrating the subject matter of analytic geometry and differential and integral calculus. It includes the following topics: the straight line and circle, conics; limits and continuity; the derivative, slope and velocity, curve sketching, extrema; the integral, areas, arc length, volume of revolution; fundamental theorem of the calculus; exponential, logarithmic and inverse trigonometric functions; vectors; parametric equations; planes, cylinders and lines in space; polar, cylindrical and spherical coordinates; directional and partial derivatives; double and triple integrals. A continuous course. *Prerequisite: Math. 125-126 or Math. 135 (or equivalent).*

MATHEMATICS 310. *Elementary Theory of Numbers* (I or II; 3, 0), 3 credits.

Topics in elementary number theory including properties of integers and prime numbers, divisibility of numbers, congruence, residues, and selected topics.

MATHEMATICS 350. *Modern Algebra* (I or II; 3, 0), 3 credits.

Fundamental concept of the relation and function, a development of the real number system, and an introduction to groups, rings, and fields.

MATHEMATICS 360. *Linear Algebra* (I or II; 3, 0), 3 credits.

An introduction to the theory of vector spaces, linear transformations, and matrices.

MATHEMATICS 375. *The Real Number System* (I or II; 3, 0), 3 credits.

A development of the real number system through a systematic approach to the natural numbers, integers, rational and irrational numbers. Includes mathematical induction, laws of arithmetic, Archimedean property. Particular attention is given to completeness property.

MATHEMATICS 467-468. *Selected Topics in Mathematics* (I and II), 1-3 credits.

Topics in advanced mathematics which are of special interest to the student but not covered in the regularly offered courses. Typical selections: foundations of mathematics, projective geometry, topology, group theory, ideal theory.

MATHEMATICS 475. *Fundamental Concepts of Geometry* (I; 3, 0), 3 credits.

Origin and development of geometry, axiomatic systems, mathematical proof, and special topics from incidence geometry.

MATHEMATICS 486. *Differential Equations* (II; 3, 0), 3 credits.

Solution of the standard types of ordinary differential equations; applications; integration in series and numerical approximations. *Prerequisite: Math. 385.*

MATHEMATICS 488. *Vector Analysis* (II; 3, 0), 3 credits.

Vector Algebra, differentiation and integration of vector functions, applications in Physics. *Prerequisite: Math. 235-236.*

MATHEMATICS 497-498. *Independent Study* (I and II), 1-3 credits.

This course is designed to give students of superior ability and initiative an opportunity to do independent study in mathematics under faculty supervision. (*Offered only with consent of the Head of the Department.*)

MATHEMATICS 505. *Mathematical Statistics I* (I; 3, 0), 3 credits.

An introduction to theoretical statistics. Probability; discrete and continuous random variables; mathematical expectation. *Prerequisite: Math. 235-236 (or equivalent).*

MATHEMATICS 506. *Mathematical Statistics II* (II; 3, 0), 3 credits.

A continuation of Mathematics 505. Sampling distributions; point and interval estimation; tests of hypothesis; regression and correlation; design and analysis of experiments. *Prerequisite: Math. 505.*

MATHEMATICS 510. *Advanced Calculus I* (I; 3, 0), 3 credits.

Rigorous treatment of fundamental concepts of the calculus, further topics from the calculus of functions of one variable, calculus of real functions of finitely many real variable. *Prerequisite: At least two semesters of calculus.*

MATHEMATICS 511. *Advanced Calculus II* (II; 3, 0), 3 credits.

Continuation of Mathematics 510.

MATHEMATICS 515. *History of Mathematics* (I or II; 3, 0), 3 credits.

This course is a study of sources and growth of mathematical ideas and principles from earliest times to the present, with emphasis on the influence of mathematics on the development of civilization.

MATHEMATICS 520. *Foundations of Euclidean Geometry* (II; 3, 0), 3 credits.

A study of the structure and content of Euclidean geometry from an advanced standpoint.

MATHEMATICS 525. *Numerical Analysis* (I or II; 3, 0), 3 credits.

Error analysis, interpolating functions, roots of equations by successive approximations, iterative methods for solving simultaneous linear equations, and programming. Laboratory work will consist of Fortran programming with application to the IBM 1130 Computer on campus. *Prerequisite: Math. 385 (or consent of the instructor).*

MATHEMATICS 530. *Abstract Algebra* (I or II; 3, 0), 3 credits.

A study of groups, rings, integral domains, and fields.

MATHEMATICS 550. *Theory of Numbers* (I or II; 3, 0), 3 credits.

Topics in number theory including divisibility properties, integral solutions of equations, congruences, prime numbers, arithmetic functions, and number theoretic functions.

DEPARTMENT

of Physical and Health Education

DR. MARILYN CRAWFORD, *Head of the Department*

Professors BRUCE, CRAWFORD, and MORRISON

Assistant Professors P. DAVIS, DUNN, ELLER, HARRIS, M. HORN, HUNT-SINGER, LIPTON, LONG, MILLS, MYERS, QUINN, RADER, RUMMEL, SCHELL, and STROUGH

Instructors GEIL, GOODRICH, JAYNES, and C. PATTERSON

Assistant Instructor O'DONNELL

The Department of Physical and Health Education is organized to contribute to the Basic Studies program of the College and to prepare students for professional careers in physical and health education.

In the Basic Studies program all students must earn four (4) semester credits in physical education and two (2) semester credits in health, Health 200 (Personal and Community Health). In physical education, a course in the Physical Education 140's (dance or conditioning activities), the Physical Education 160's (swimming), and the Physical Education 220-230's (land sports) are required of all students. With the permission of the Department Head, appropriate activity courses of a higher number carrying one (1) semester hour of credit may be selected for Basic Studies credit. Electives are provided for all students.

The minimum requirement for a major in Physical and Health Education is thirty-six (36) semester hours beyond the Basic Studies requirement. The major program is available to women only. Students who complete the major program with a minor in Education meet the certification requirements for teaching in the secondary schools of Virginia. Adjustments may be made for specialization in dance, gymnastics, and health, and to meet certification requirements in other states.

The Department of Physical and Health Education offers an interdepartmental major in Health with a minimum requirement of thirty-six (36) semester hours.

A minor in the Department of Physical and Health Education is available; a student may select one of the following options:

Option I. Physical and Health Education. (Available only to students majoring in Elementary Education.) Twenty-four (24) semester hours are required, including the six (6) hours in Basic Studies, Physical Education 253 (Intermediate Tumbling), Physical Education 283 (Basic Skills and Fundamentals of Movement), Physical Education 370, 370X (Physical Education for Children), Physical Education 386 (Principles of Health and

Physical Education), Health 203 (Safety and First Aid), Health 300 (School Health Program), plus five (5) additional hours to be selected.

Option II. General Physical Education. Eighteen (18) hours are required in the Department including the six (6) hours in Basic Studies, Physical Education 386 (Principles of Health and Physical Education), five (5) hours of intermediate or advanced level courses in either sports, dance, recreation, or aquatics, plus four (4) additional hours to be selected.

Option III. Health Education. Eighteen (18) hours are required in the Department, including the six (6) hours in Basic Studies, Health 306 (Health Problems of the Young Adult), Health 314, (Introduction to Public Health), plus seven (7) additional hours to be selected from the Health courses.

The special costumes required for physical education may be obtained locally. Students enrolled in swimming must provide their own (one-piece) swimming suit. Students earning a major in Physical Education must provide a warm-up suit and hockey shoes in addition to other costumes.

Students interested in a program offered by the Department of Physical and Health Education should consult Dr. Marilyn Crawford, 7 Keezell Hall.



Four-Year Program for a Major in Physical and Health Education

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	3	0	
Bio. 110. General Biology	4	0	
Bio. 120. General Zoology	0	4	
Eng. 101-102. Reading and Composition.....	3	3	
Math. 125-126. Introduction to College Mathematics (or Math. 107-108. Fundamentals of Mathematics).....	3	3	
Mus. 200. Music in General Culture.....	0	3	
P.E. 283, 253. Basic Skills and Fundamentals of Movement; Intermediate Tumbling	1	1	
Basic Studies Requirement in Physical Education.....	1	1	
Elective	1	1	
	<hr/>	<hr/>	
	16	16	

SOPHOMORE YEAR

Bio. 270. Human Physiology	0	3	
Bio. 290. Human Anatomy	4	0	
Chem. 110. General Chemistry	0	4	
Eng. 233-234. Introduction to Literature.....	3	3	
Hth. 203-200. Safety and First Aid; Personal and Community Health	3	2	
P.E. 236, 254. Intermediate Softball; Intermediate Gymnastics	1	1	
P.E. 284. Activities for Children.....	0	1	
Psy. 233-234. Human Growth and Development.....	3	3	
Spch. 200. Oral Communication	2	0	
	<hr/>	<hr/>	
	16	17	

JUNIOR YEAR

Ed. 360. Foundations of Curriculum.....	3	0	
Ed. 370. Methods and Materials in Teaching in the Secondary School	0	3	
Hth. 304. Traffic and Driver Safety.....	0	3	
Hist. 233-234. United States History.....	3	3	
P.E. 373-374. Advanced Hockey; Advanced Basketball....	1	1	
P.E. 363, 340. Aquatic Sports; Advanced Modern Dance..	1	1	
P.E. 380. Officiating	1	0	
P.E. 383. Kinesiology	3	0	
P.E. 386. Principles of Health and Physical Education....	0	3	
Basic Studies Requirement in Social Science.....	3	3	
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	15	17	

SENIOR YEAR

Credits per Semester:

	1st	2nd
Ed. 470. History and Philosophy of Educational Thought..	0	3
Ed. 480. Directed Teaching	8	0
Hth. 403. Advanced Health	3	0
P.E. 483. Health and Physical Education in Secondary Schools	2	0
P.E. 376. Advanced Tennis; Fencing	0	1
P.E. 377. Advanced Hockey; Golf	1	0
P.E. 474. Summary of Dance.....	2	0
P.E. 484. Problems in Administration.....	0	3
P.E. 485. Measurement and Evaluation in Physical Education	0	3
Electives	0	5
	<hr/> 16	<hr/> 15



Four-Year Program for a Major in Health (Pre-Public Health)

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	3	0	
Bio. 110. General Biology	4	0	
Bio. 120. General Zoology	0	4	
Eng. 101-102. Reading and Composition.....	3	3	
Math. 125-126. Introduction to College Mathematics.....	3	3	
Mus. 200. Music in General Culture.....	0	3	
Spch. 200. Oral Communication	0	2	
Basic Studies Requirement in Physical Education.....	1	1	
Electives	2	0	
		<hr/>	<hr/>
		16	16

SOPHOMORE YEAR

Bio. 270. Human Physiology	0	3	
Chem. 101-102. General Chemistry	4	4	
Eng. 233-234. Introduction to Literature.....	3	3	
Hth. 200. Personal and Community Health.....	2	0	
Hth. 203. Safety and First Aid.....	0	3	
Psy. 231-232. General Psychology	3	3	
Basic Studies Requirement in Physical Education.....	1	1	
Elective in Biology or Chemistry.....	4	0	
		<hr/>	<hr/>
		17	17

JUNIOR YEAR

Bio. 280. General Microbiology	4	0	
Hth. 306. Health Problems of Young Adults.....	0	2	
Hist. 233-234. United States History.....	3	3	
Math. 220. Elementary Statistics	0	3	
Basic Studies Requirement in Social Science.....	3	3	
Electives	6	5	
		<hr/>	<hr/>
		16	16

SENIOR YEAR

Hth. 314. Introduction to Public Health.....	3	0	
Hth. 403. Advanced Health	3	0	
Hth. 414. Field Work in Health.....	0	3	
Psy. 357. Psychology of Personality (or Psy. 478. Growth and Development in Adolescence).....	0	3	
Psy. 487. Social Psychology	3	0	
Soc. 387, 468. Social Welfare; Community Organization..	3	2	
Electives	3	7	
		<hr/>	<hr/>
		15	15

Description of Courses

*This course will include a second activity according to the season; both activities must be successfully completed in order to pass the course. Fees will be charged for the following classes per eight-weeks session: bowling, (tenpins), \$9.00; riding, \$80.00; golf (intermediate and advanced), \$4.00. The College reserves the right to cancel these classes should suitable facilities be unavailable.

PHYSICAL EDUCATION 103. *Fundamentals of Physical Education* (I; 0, 3), 1 credit.

This course is designed to help the student achieve a desirable level of strength, body alignment and skill in fundamental motor activities.

PHYSICAL EDUCATION 105-106. *Adapted Activities* (I and II; 0, 3), 1 credit.

This course is designed for students with severe medical restrictions and is adapted to individual needs. *Prerequisite: Recommendation of College Physician and permission of Head of Department.*

*PHYSICAL EDUCATION 120-139. *Elementary Sports* (I and II; 0, 3), 1 credit.

Elementary level in specific individual and team sports: 120-Team Sports for Women; 121-Team Sports for Men; 125-Tennis; 126-Golf; 127-Archery; 128-Fencing; 129-Badminton; *133-Bowling; *134-Equitation.

PHYSICAL EDUCATION 140-149. *Elementary Dance and Conditioning Activities* (I and II; 0, 2), 1 credit.

Elementary level in specific types of dance and conditioning activities: 140-Modern; 141-Folk and Square; 143-Ballroom and Round; 145-Conditioning Activities for Women; 146-Conditioning Activities for Men.

PHYSICAL EDUCATION 160-169. *Elementary Swimming* (I and II; 0, 3), 1 credit.

Beginning and elementary levels of swimming strokes, personal safety, rescue skills, and diving: 160-Elementary swimming (for students who have some swimming skill), 162-Beginning swimming (for students who cannot swim the width of the pool.)

*PHYSICAL EDUCATION 220-239. *Intermediate Sports* (I and II; 0, 3), 1 credit.

Intermediate level in specific individual and team sports: 223-Basketball; 224-Hockey; 225-Tennis; 226-*Golf; 227-Archery; 228-Fencing; 229-Badminton; 233-*Bowling (*Prerequisite: average of 110*); 234-*Equitation; 235-Volleyball; 236-Softball.

*PHYSICAL EDUCATION 240-249. *Intermediate Dance* (I and II; 0, 3), 1 credit.

Intermediate level in specific types of dance: 240-Modern; 241-Folk and Square; 243-Ballroom and Round. *Prerequisite: Elementary level (or equivalent) of the respective dance form.*

PHYSICAL EDUCATION 253. *Intermediate Tumbling, Track and Field* (II; 0, 3), 1 credit.

Intermediate tumbling leading into free exercise; the basic events in women's track and field.

*PHYSICAL EDUCATION 254. *Intermediate Gymnastics* (I; 0, 3), 1 credit.

Intermediate level performance using floor and hand apparatus.

*PHYSICAL EDUCATION 260. *Intermediate Swimming* (I and II; 0, 3), 1 credit.

Stroke development, diving, and endurance swimming. *Prerequisite: P.E. 160 (or equivalent.)*

PHYSICAL EDUCATION 264. *Life Saving* (I or II; 0, 2), 1 credit.

The Senior Life Saving Course of the American Red Cross. Recommended for physical education majors. (Open to all students subject to instructor's approval.)

*PHYSICAL EDUCATION 267. *Advanced Swimming and Diving* (I or II; 0, 3), 1 credit.

The emphasis is upon the perfection of ten swimming strokes, endurance swimming and springboard diving. *Prerequisite: P.E. 260, 264 or approval of instructor.*

PHYSICAL EDUCATION 283. *Basic Skills and Fundamentals of Movement* (I; 0, 2), 1 credit.

This course stresses skills of movement and body mechanics. Recommended for majors in elementary education. *Not acceptable for Basic Studies requirement.*

PHYSICAL EDUCATION 284. *Activities for Children* (II; 0, 2), 1 credit.

Rhythms, games, self-testing and all other types of activities taught to children. Recommended for majors in elementary education. *Not acceptable for Basic Studies requirement.*

PHYSICAL EDUCATION 285. *Community Recreation* (I or II; 2, 0), 2 credits.

Organization and administration of community recreation programs. Special attention is given to leadership skills. An elective open to all students.

PHYSICAL EDUCATION 286. *Camp Leadership* (I or II; 1, 2), 2 credits.

A course designed to develop those qualities and skills necessary for leadership in camping. Attention is also given to camping philosophies and organizational techniques. Open to all students. (Students without meal tickets will be charged up to \$4.00 for food for cook-outs.)

PHYSICAL EDUCATION 340. *Advanced Modern Dance* (I or II; 0, 2), 1 credit.

Modern dance technique and composition on an advanced level. *Prerequisite: P.E. 246 or P.E. 373B.*

PHYSICAL EDUCATION 346. *Dance Production* (II; 1, 2), 2 credits.

Lectures and laboratory experiences in organizing and presenting dance demonstrations and concerts. Attention is given to accompaniment, lighting, make-up, costume sets and properties.

PHYSICAL EDUCATION 363. *Aquatic Sports* (I or II; 0, 2), 1 credit.

Advanced swimming and diving skills and their use in synchronized swimming, competition, water games and related activities.

PHYSICAL EDUCATION 366. *Instruction in Water Safety* (I or II; 1, 2), 2 credits.

Students completing this course satisfactorily may qualify for the American Red Cross Instructor's Certificate in Swimming and Water Safety. *Prerequisites: Senior Life Saving and advanced swimming ability.*

PHYSICAL EDUCATION 370. *Physical Education for Children* (I and II; 2, 0), 2 credits.

A survey of the activity needs of children, and the selection, organization, presentation and evaluation of activities appropriate in meeting these needs. *Prerequisite: Psy. 233-234 (or equivalent).*

PHYSICAL EDUCATION 370X. *Physical Education for Children* (I and II; 1, 0), 1 credit.

An additional credit required of minors in Physical and Health Education. Emphasis is placed on administrative responsibilities. Other students, with approval, may elect to take this course in conjunction with P.E. 370.

PHYSICAL EDUCATION 373-379. *Advanced Sports and Dance* (I and II; 0, 3), 1 credit.

373: A-Field Sports; B-Survey of Dance; 374: A-Advanced Basketball; B-Archery; *375: Advanced Equitation. 376: A-Advanced Tennis; B-Fencing; 377: A-Advanced Hockey; B-Golf.

PHYSICAL EDUCATION 380. *Officiating* (I and II; 1, 0), 1 credit.

Theory and practice of officiating in selected sports. The standards of the appropriate men's and women's officiating groups are used. (Limited

enrollments; required of physical education majors. Exemption by examination of appropriate officiating groups. Separate classes for men and women.)

PHYSICAL EDUCATION 383. *Kinesiology* (I and II; 3, 1), 3 credits.

The science of human movement involving principles of mechanics, psychology and physiology; the application of the knowledge of anatomy in improving motor performance. *Prerequisite: Bio. 290-270.*

PHYSICAL EDUCATION 384. *Physiology of Muscular Activity* (I or II; 2, 0), 2 credits.

Study of the effects of exercise upon the body and bodily functions; physiological effects of special kinds of activity; physiology of training; assessment of organic fitness. *Prerequisite: Bio. 290-270. (Offered 1969-70 and alternate years.)*

PHYSICAL EDUCATION 386. *Principles of Health and Physical Education* (I and VII; 3, 0), 3 credits.

The history of physical education as it has affected the schools of the United States. The principles of health and physical education as a basis for objectives, program and method; current problems.

PHYSICAL EDUCATION 387. *Kinesiology of the Physically Handicaped* (II; 2, 2), 3 credits.

The movement and movement problems of children with crippling conditions; orientation to therapeutic exercise and developmental movement. *Prerequisite: Bio. 110.* (Credit will not be given to students majoring in Physical and Health Education.)

*PHYSICAL EDUCATION 474. *Summary of Dance* (I; 1, 3), 2 credits. Available on the block plan.

A summarizing dance experience organized to increase understanding and the ability to project and communicate through dance media.

PHYSICAL EDUCATION 483. *Health and Physical Education in the Secondary Schools* (I; 2, 0), 2 credits. Available on the block plan.

Class procedures, methods, and the use of materials in the school programs of health and physical education. *Prerequisite: Ed. 370.*

PHYSICAL EDUCATION 484. *Problems in Administration* (II; 3, 0), 3 credits.

Selected problems relating to the program of health, physical educational, and safety in secondary schools; athletics, intramural and extramural; maintenance of physical education plants; administrative policies; budget, instructional supplies, and equipment; public relations; professional standards. *Prerequisite: P.E. 386 (or equivalent).*

PHYSICAL EDUCATION 485. *Measurement and Evaluation in Physical Education* (I or II; 3, 0), 3 credits.

This course includes the selection, administration and use of tests unique to the field of physical education. Special emphasis is placed on testing procedures.

PHYSICAL EDUCATION 486. *Adapted Physical Education* (II; 3, 1), 3 credits.

Designed to provide understanding and laboratory experience in remedial exercises and other activities for individuals restricted because of poor body mechanics and crippling conditions. *Prerequisite: P.E. 383.*

PHYSICAL EDUCATION 490. *Special Studies in Physical Education* (I or II; 1-3, 0), 1-3 credits.

This course is designed to give superior students in physical education an opportunity to do independent study and/or research under faculty supervision. *Prerequisite: Permission of the Head of the Department.*

PHYSICAL EDUCATION 510. *Principles of Motor Learning* (I or II; 3, 0), 3 credits.

Principles and theories of learning motor skills, and their applications in teaching and coaching physical education activities.

PHYSICAL EDUCATION 520. *Advanced Coaching* (I or II; 3, 0), 3 credits.

Principles, techniques, and procedures basic to the coaching of all sports; coaching techniques in specific individual and team sports are emphasized.

PHYSICAL EDUCATION 530. *Advanced Creative Dance* (I or II; 2, 2), 3 credits.

Advanced theory, techniques, and materials of creative dance in education.

PHYSICAL EDUCATION 540. *Physical Education in Elementary Schools* (I or II; 3, 0), 3 credits.

The planning, conducting, and supervising of the physical education program in elementary schools. Special emphasis is given to newer concepts in physical activities for children.

Health

HEALTH 200. *Personal and Community Health* (I and II; 2, 0), 2 credits.

A study of selected factors which relate and contribute to healthful living, including the activities of the community health program. (*Prerequisite: Bio. 110.*)

HEALTH 203. *Safety and First Aid* (I and II; 3, 0), 3 credits.

Standard and Advanced First Aid courses and materials and methods of instruction in various phases of safety education. Students who complete the course successfully will be certified by the Red Cross in First Aid.

HEALTH 300. *The School Health Program* (I or II; 2, 0), 2 credits.

A study of health services and environmental factors which contribute to the promotion of health and prevention of disease, and their interrelationships with health instruction. Emphasis is given to health appraisals, and scientific bases for a healthful environment.

HEALTH 304. *Traffic and Driver Safety* (I and II; 3, 1), 3 credits.

Problems of traffic and driver safety as they exist in our present society. Upon successful completion of this course and Health 203, students may secure an endorsement for Driver Education from the State Board of Education after graduation. (*Operator's license issued by the Commonwealth of Virginia is required.*)

HEALTH 305. *Advanced Traffic and Driver Safety* (I or II; 2, 0), 2 credits.

Examination of the psychological problems and research in traffic safety. Survey of traffic management, administration, legislation and enforcement. *Prerequisite: Health 304.*

HEALTH 306. *Health Problems of the Young Adults* (I or II; 2, 0), 2 credits.

Major health problems of young adults are studied, with consideration given to their psychological, physiological, sociological and economic ramifications. *Prerequisite: Health 200 (or equivalent).*

HEALTH 314. *Introduction to Public Health* (I and II; 3, 0), 3 credits.

A study of the program and services of voluntary and official public health and welfare organizations. Emphasis is placed upon the community public health department and lay participation in health organizations. Hours will be assigned for observation and field trips to local organizations. *Prerequisite: Health 200, and approval of the instructor.*

HEALTH 403. *Advanced Health* (I; 3, 0), 3 credits. Available on the block plan.

The scientific foundations, recent developments, and effects on wholesome living of nutrition, genetics, and specific areas in personal health. Independent research in additional areas of health will be emphasized. *Prerequisite: Health 200 and Bio. 290-270.*

HEALTH 414. *Field Work in Health* (I or II; 2, 3), 3 credits.

Work in the local health and welfare agencies under the supervision of the course instructor. *Prerequisite: Health 314.*

HEALTH 550. *Recent Developments in Health* (I or II; 3, 0), 3 credits.

A study of recent developments and trends in medical and paramedical programs, such as cancer, environmental health, and heredity.

DEPARTMENT of Physics

DR. JOHN C. WELLS, *Head of the Department*

Professors MEYERS and WELLS

Assistant Professors CONWAY, J. GORDON, and K. MOORE

The basic objectives of the Department of Physics are to provide programs of study leading to the major in Physics or minor in Physics for students preparing to teach, pursue graduate work, or enter government or industrial work. The Department of Physics also provides courses to meet certain Basic Studies needs and courses which serve other departments.

The minimum requirement for an undergraduate major in Physics is thirty-six (36) semester hours including Physics 121-122 (General Physics) which meets the Basic Studies requirements in Physical Science. Other courses required are Physics 221 (Electronics I), Physics 345 (Electricity and Magnetism), Physics 250 (Optics), Physics 337 (Atomic Physics), Physics 420 (Mechanics), Physics 470 (Selected Topics in Theoretical and Experimental Physics). The remainder of the thirty-six (36) hour requirement may be met by any of the following: Physics 222 (Electronics II), Physics 230 (Health Physics), Physics 338 (Nuclear Physics), and Physics 430 (Thermodynamics).

The minimum requirement for a minor in Physics is eighteen (18) hours including Physics 121-122 (General Physics). Other courses required are Physics 221 (Electronics I) and Physics 250 (Optics). The remainder of the eighteen (18) hour requirement may be met by any of the following: Physics 337 (Atomic Physics), Physics 345 (Electricity and Magnetism), Physics 230 (Health Physics), and Physics 420 (Mechanics).

In order to meet physics course prerequisites, students anticipating a major in Physics should elect Mathematics 125-126 (Introduction to College Mathematics) and Mathematics 235-236 (Analytic Geometry and Calculus).

Students seeking teacher certification in secondary education should take the following courses: Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Education 370 (Methods and Materials in Teaching in the Secondary School), Education 470 (History of Philosophy of Educational Thought), and Education 480 (Directed Teaching) in the senior year.

Students interested in a Physics major or minor should consult Dr. John C. Wells, 5 Burruss Hall.

Four-Year Program for a Major in Physics

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	3	0	
Eng. 101-102. Reading and Composition.....	3	3	
Hist. 233-234. United States History.....	3	3	
Math. 125-126. Introduction to College Mathematics.....	3	3	
Mus. 200. Music in General Culture.....	0	3	
Phys. 121-122. General Physics	4	4	
Basic Studies Requirement in Physical Education.....	1	1	
		<hr/>	<hr/>
		17	17

SOPHOMORE YEAR

Bio. 110-120. General Biology; General Zoology.....	4	4	
Math. 235-236. Analytic Geometry and Calculus.....	5	5	
Phys. 221. Electronics I	4	0	
Phys. 250. Optics	0	4	
Psy. 231-232. General Psychology	3	3	
Basic Studies Requirement in Physical Education.....	1	1	
		<hr/>	<hr/>
		17	17

JUNIOR YEAR

Chem. 101-102. General Chemistry	4	4	
Eng. 233-234. Introduction to Literature.....	3	3	
Hth. 200. Personal and Community Health.....	0	2	
Phys. 337. Atomic Physics	4	0	
Phys. 345. Electricity and Magnetism.....	4	0	
Spch. 200. Oral Communication	0	2	
Electives in Physics.....	0	4	
		<hr/>	<hr/>
		15	15

SENIOR YEAR

Phys. 420. Mechanics	4	0	
Phys. 470. Selected Topics in Theoretical and Experimental Physics	2	0	
Basic Studies Requirement in Social Science.....	3	3	
Electives	6	12	
		<hr/>	<hr/>
		15	15

Four-Year Program for a Major in Physics Qualifying for the Secondary Collegiate Professional Certificate

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	3	0	
Eng. 101-102. Reading and Composition.....	3	3	
Hist. 233-234. United States History.....	3	3	
Math. 125-126. Introduction to College Mathematics.....	3	3	
Mus. 200. Music in General Culture.....	0	3	
Phys. 121-122. General Physics	4	4	
Basic Studies Requirement in Physical Education.....	1	1	
		<hr/>	<hr/>
		17	17

SOPHOMORE YEAR

Bio. 110-120. General Biology; General Zoology.....	4	4	
Math. 235-236. Analytic Geometry and Calculus.....	5	5	
Phys. 221. Electronics I	4	0	
Phys. 250. Optics	0	4	
Psy. 233-234. Human Growth and Development.....	3	3	
Basic Studies Requirement in Physical Education.....	1	1	
		<hr/>	<hr/>
		17	17

JUNIOR YEAR

Chem. 101-102. General Chemistry	4	4	
Ed. 360. Foundations of Curriculum	0	3	
Eng. 233-234. Introduction to Literature.....	3	3	
Hth. 200. Personal and Community Health.....	0	2	
Phys. 337. Atomic Physics	4	0	
Phys. 345. Electricity and Magnetism.....	4	0	
Sci. 490P. Seminar for Science Teachers.....	0	1	
		<hr/>	<hr/>
		15	15

SENIOR YEAR

Ed. 370. Methods and Materials in Teaching in the Secondary School	3	0	
Ed. 470. History and Philosophy of Education Thought...	3	0	
Ed. 480. Directed Teaching	0	8	
Phys. 420. Mechanics	4	0	
Phys. 470. Selected Topics in Theoretical and Experimental Physics	2	0	
Basic Studies Requirement in Social Science.....	3	3	
Elective in Physics.....	0	4	
		<hr/>	<hr/>
		15	15

Description of Courses

PHYSICS 110. *Physics in the Modern World* (I or II; 3, 2), 4 credits.

A one semester course designed to acquaint the student with such physical concepts as force, energy, and radiation in their mechanical, thermal, electrical, and atomic forms. Important physical laws are examined through laboratory exercises. Less emphasis is placed on mathematics and mathematical proofs than in Physics 121-122.

PHYSICS 121-122. *General Physics* (I and II; 3, 3), 4 credits each semester. Year course.

A basic course in general physics. Provides the background necessary for advanced work in physics, and for an understanding of allied subjects. Experiments and elementary problems in the field of mechanics, heat, sound, electricity, optics, and modern physics are included.

PHYSICS 221-222. *Electronics I—Electronics II* (I and II; 3, 2), 4 credits each semester.

A study of the electron tube and its application. Rectifier, amplifier, oscillator, wave-shaping circuits, the cathode ray tube, microwaves, solid state devices and related circuits are treated. Primary emphasis is placed on laboratory work. *Prerequisite: Phys. 121-122.*

PHYSICS 230. *Health Physics* (I; 3, 2), 4 credits.

A one semester course in the study of radiation hazard, dose limitations, dose calculations; shielding requirements to include X-ray shielding, radiation measurements, contamination problems, decontamination procedures and survey instruments. This course emphasizes the techniques and procedures of radiation safety and contamination control with less emphasis on atomic and nuclear structure. *Prerequisites: Math. 107-108 or Math. 125-126 and one semester of physics, biology, or chemistry.*

PHYSICS 250. *Optics* (II; 3, 2), 4 credits.

Geometric optics, including reflection and refraction. Physical optics, including interference, diffraction, polarization, and coherent light. *Prerequisites: Phys. 121-122 and Math. 235-236.*

PHYSICS 320. *Astronomy* (II; 1, 2), 2 credits.

A descriptive course covering the solar system, the constellations of our galaxy, and the extra-galactic systems. Classes are replaced occasionally by evening observation periods. Use is also made of the Spitz planetarium.

PHYSICS 337. *Atomic Physics* (I; 3, 2), 4 credits.

An introduction to contemporary physics. Topics will include special relativity, black body radiation, photo effect, electron waves, Compton scattering, X-rays, angular momentum and introductory Schrodinger wave mechanics. The laboratory will consist of a limited number of related experiments to be completed with precision and thoroughness. *Prerequisites: Phys. 121-122 and Math. 235-236.*

PHYSICS 338. *Nuclear Physics* (II; 3, 2), 4 credits.

An introduction to natural and artificial radioactivity, mass spectroscopy, fundamental particles, nuclear reactions and radiation, elementary theories of the nucleus, and nuclear reactors. The laboratory will emphasize instrumentation used in radiation detection, utilizing a multichannel pulse analyzer and a 4 curie plutonium beryllium neutron source. *Prerequisites: Phys. 121-122 and Math. 235-236.*

PHYSICS 345. *Electricity and Magnetism* (I; 3, 2), 4 credits.

A study of the electrostatic field, the magnetic field, direct and alternating currents, and electromagnetic waves. *Prerequisites: Phys. 121-122 and Math. 235-236.*

PHYSICS 420. *Mechanics* (I; 3, 2), 4 credits.

Application of the fundamental laws of mechanics to particles and rigid bodies. Topics include statics, dynamics, central forces, oscillatory motion, and generalized coordinates. *Prerequisites: Phys. 121-122 and Math. 235-236.*

PHYSICS 430. *Thermodynamics* (II; 3, 0), 3 credits.

A study of theory and experiments in the field of heat and thermodynamics. Topics include equations of state, first and second laws of thermodynamics, properties of ideal gases, transport phenomena, and properties of solids. *Prerequisites: Phys. 121-122 and Math. 235-236.*

PHYSICS 470-471. *Selected Topics in Theoretical and Experimental Physics* (I and/or II; 0, 2), 2 credits each semester.

A study in depth of specific areas of physics selected according to student needs and interests and staff availability. *Prerequisites: Phys. 121-122, plus 16 additional hours of physics.*

PHYSICS 497-498. *Problems in Physics* (I and/or II), 1-3 credits each semester.

A conference course in which the subject matter and experimental work are selected to meet the needs and interests of each individual student. Open with permission of the Head of the Department.



DIVISION

of the Social Sciences

DR. ELMER L. SMITH, *Director*

Departmental Programs

Business Education

- General Office Procedures
- Stenography
- Bookkeeping-Data Processing
- Office Administration

History

Home Economics

- General Home Economics
- Home Economics Education
- Dietetics

Library Science

Social Science

- Economics
- Geography
- Political Science
- Pre-Law
- Sociology
- General Social Science
- Social Work

Business Administration

- Management
- Marketing
- Accounting

DEPARTMENT

of Business Education

DR. Z. S. DICKERSON, JR., *Head of the Department*

Professor DICKERSON

Associate Professor STEAGALL

Assistant Professors COFFMAN, RUCKER, and WALSH

The Department of Business offers two options leading to a Bachelor of Science degree. Option I, Business Education, provides courses that permit certification in selected areas of business education leading to the Collegiate Professional Certificate. A minimum of forty-five (45) semester hours in business and six (6) semester hours in business education methods is required. Option II, Office Administration, provides specialized training in Office Administration. A choice of (1) a secretarial sequence or (2) an office management sequence is provided in the program.

A minor in Business consists of twenty (20) semester hours of required and elective courses. Required courses for a minor are Business 100 (Introduction to Business), Business 131 (Elementary Typewriting), and Business 270 (Business Machines). There are twelve (12) semester hours of elective courses.

Students who have completed courses in typewriting, accounting or shorthand in high school or business college may be admitted to advanced courses in these subjects. These students will then choose other business courses as substitutes for the courses from which they have been excused.

Students interested in any program offered by the Department of Business should consult Dr. Z. S. Dickerson, Jr., 9 Harrison Hall.

Four-Year Program in Business Education (General Office Procedures)

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bus. Ed. 100. Introduction to Business.....	3	0	
Bus. Ed. 131. Elementary Typewriting	3	0	
Bus. Ed. 132. Intermediate Typewriting	0	3	
Eng. 101-102. Reading and Composition.....	3	3	
Hist. 233-234. United States History.....	3	3	
Math. 107-108. Fundamentals of Mathematics (or Math. 125-126. Introduction to College Mathematics).....	3	3	
Mus. 200. Music in General Culture.....	0	3	
Basic Studies Requirement in Physical Education.....	1	1	
	<hr/>	<hr/>	
	16	16	

SOPHOMORE YEAR

Art 200. Art in General Culture.....	3	0	
Bus. Adm. 241-242. Elementary Accounting	3	3	
Bus. Adm. 280. Introduction to Management.....	0	3	
Bus. Ed. 233. Advanced Typewriting	3	0	
Bus. Ed. 234. Office Procedures	0	3	
Eng. 233-234. Introduction to Literature.....	3	3	
Basic Studies Requirement in Physical Education	1	1	
Basic Studies Requirement in Biological Science	4	0	
Basic Studies Requirement in a Physical Science	0	4	
	<hr/>	<hr/>	
	17	17	

JUNIOR YEAR

Bus. Adm. 343-344. Intermediate Accounting	3	3	
Bus. Ed. 270. Business Machines	3	0	
Bus. Ed. 340. Data Processing for Business.....	0	3	
Bus. Ed. 370. Methods and Materials in Teaching Basic Business Subjects	0	3	
Eco. 230-235. Principles of Economics.....	3	3	
Spch. 200. Oral Communication	0	2	
Ed. 360. Foundations of Curriculum.....	3	0	
Psy. 233-234. Human Growth and Development.....	3	3	
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	15	17	

SENIOR YEAR

Bus. Adm. 489. Personnel Administration	3	0	
Bus. Adm. 495. Business Law	3	0	
Bus. Ed. 320. Office Management	0	3	
Bus. Ed. 330. Business Communications	0	3	
Bus. Ed. 470. Methods and Materials in Teaching Skill Business Subjects	3	0	
Ed. 480. Directed Teaching	6	0	
Hth. 200. Personal and Community Health.....	0	2	
Electives	0	7	
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	15	15	

Four-Year Program in Business Education (Stenography)

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bus. Ed. 100. Introduction to Business.....	3	0	
Bus. Ed. 121-122. Elementary Shorthand	3	3	
Bus. Ed. 132. Intermediate Typewriting	0	3	
Eng. 101-102. Reading and Composition	3	3	
Hist. 233-234. United States History	3	3	
Math. 107-108. Fundamentals of Mathematics (or Math. 125-126. Introduction to College Mathematics).....	3	3	
Basic Studies Requirement in Physical Education.....	1	1	
		<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Bus. Adm. 241-242. Elementary Accounting	3	3	
Bus. Ed. 223-224. Advanced Shorthand	3	3	
Bus. Ed. 233. Advanced Typewriting	3	0	
Eng. 233-234. Introduction to Literature.....	3	3	
Spch. 200. Oral Communication	0	2	
Basic Studies Requirement in Physical Education	1	1	
Basic Studies Requirement in Biological Science	4	0	
Basic Studies Requirement in a Physical Science	0	4	
		<hr/> 17	<hr/> 16

JUNIOR YEAR

Bus. Adm. 280. Introduction to Management.....	3	0	
Bus. Ed. 234. Office Procedures	0	3	
Bus. Ed. 270. Business Machines	3	0	
Bus. Ed. 340. Data Processing for Business.....	3	0	
Bus. Ed. 370. Methods and Materials in Teaching Basic Business Subjects	0	3	
Eco. 230-235. Principles of Economics.....	3	3	
Ed. 360. Foundations of Curriculum.....	0	3	
Mus. 200. Music in General Culture.....	0	3	
Psy. 233-234. Human Growth and Development.....	3	3	
		<hr/> 15	<hr/> 18

SENIOR YEAR

Art 200. Art in General Culture.....	3	0	
Bus. Adm. 495. Business Law	3	0	
Bus. Ed. 320. Office Management	0	3	
Bus. Ed. 330. Business Communications	3	0	
Bus. Ed. 470. Methods and Materials in Teaching Skill Business Subjects	0	3	
Ed. 480. Directed Teaching	6	0	
Hth. 200. Personal and Community Health.....	0	2	
Electives	0	7	
		<hr/> 15	<hr/> 15

Four-Year Program in Business Education (Bookkeeping-Data Processing)

FRESHMAN YEAR

Credits per Semester: *1st* *2nd*

Bus. Adm. 241-242. Elementary Accounting	3	3
Bus. Ed. 100. Introduction to Business.....	3	0
Eng. 101-102. Reading and Composition.....	3	3
Hist. 233-234. United States History	3	3
Math. 107-108. Fundamentals of Mathematics (or Math. 125-126. Introduction to College Mathematics).....	3	3
Mus. 200. Music in General Culture.....	0	3
Basic Studies Requirement in Physical Education.....	1	1
	<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Art 200. Art in General Culture.....	3	0
Bus. Adm. 343-344. Intermediate Accounting	3	3
Bus. Ed. 131. Elementary Typewriting	3	0
Bus. Ed. 270. Business Machines	0	3
Eng. 233-234. Introduction to Literature.....	3	3
Spch. 200. Oral Communication	0	2
Basic Studies Requirement in Physical Education	1	1
Basic Studies Requirement in Biological Science	4	0
Basic Studies Requirement in a Physical Science	0	4
	<hr/> 17	<hr/> 16

JUNIOR YEAR

Bus. Adm. 280. Introduction to Management.....	3	0
Bus. Ed. 340. Data Processing for Business.....	3	0
Bus. Ed. 350. Problems in Data Processing.....	0	3
Bus. Ed. 370. Methods and Materials in Teaching Basic Business Subjects	3	0
Eco. 230-235. Principles of Economics.....	3	3
Ed. 360. Foundations of Curriculum	0	3
Psy. 233-234. Human Growth and Development.....	3	3
Electives	0	4
	<hr/> 15	<hr/> 16

SENIOR YEAR

Bus. Adm. 495. Business Law	3	0
Bus. Ed. 320. Office Management	0	3
Bus. Ed. 450-460. Computers in Business.....	3	3
Bus. Ed. 470. Methods and Materials in Teaching Skill Business Subjects	3	0
Ed. 480. Directed Teaching	6	0
Hth. 200. Personal and Community Health.....	0	2
Electives	0	9
	<hr/> 15	<hr/> 17

Four-Year Program in Office Administration (Secretarial or Office Management)

FRESHMAN YEAR

<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	0	3
Bus. Ed. 100. Introduction to Business.....	3	0
Bus. Ed. 131. Elementary Typewriting	3	0
Bus. Ed. 132*. Intermediate Typewriting	0	3
Bus. Ed. 122*. Elementary Shorthand	0	3
Eng. 101-102. Reading and Composition.....	3	3
Hist. 233-234. United States History	3	3
Mus. 200. Music in General Culture.....	3	0
Basic Studies Requirement in Physical Education.....	1	1
	<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Bus. Adm. 280. Introduction to Management.....	3	0
Bus. Ed. 233-234*. Advanced Shorthand	3	3
Bus. Ed. 233*. Advanced Typewriting	3	0
Bus. Ed. 234*. Office Procedures	0	3
Math. 107-108. Fundamentals of Mathematics.....	3	3
or		
125-126. Introduction to College Mathematics		
Speech 200. Oral Communications	0	2
Basic Studies Requirement in Biological Science	4	0
Basic Studies Requirement in a Physical Science	0	4
Basic Studies Requirement in Physical Education	1	1
	<hr/> 17	<hr/> 16

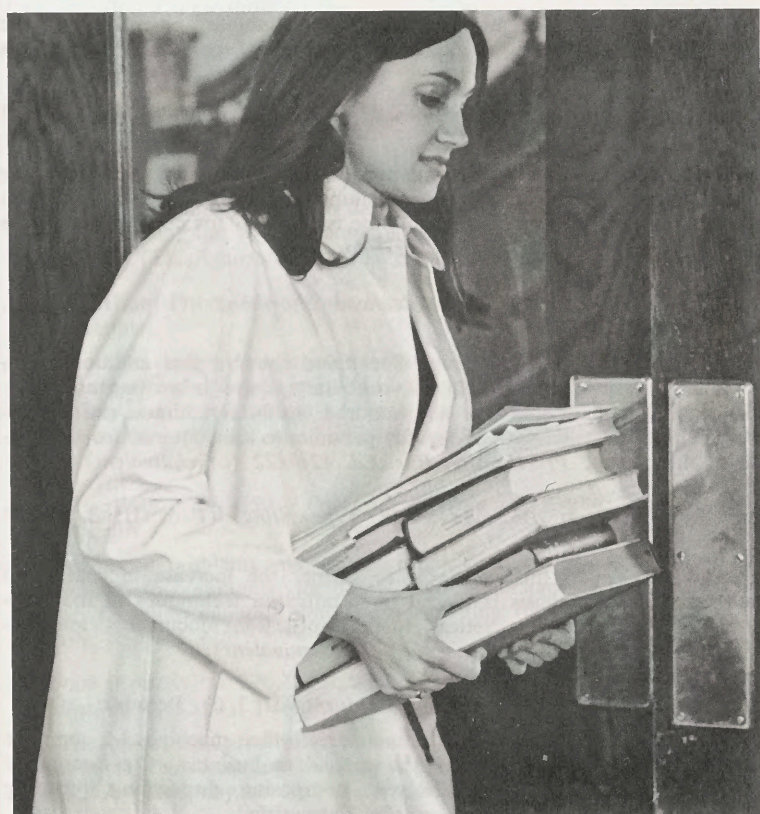
JUNIOR YEAR

Bus. Adm. 241-242. Elementary Accounting	3	3
Bus. Ed. 270. Business Machines	3	0
Bus. Ed. 330. Business Communications	0	3
Bus. Ed. 340. Data Processing for Business.....	3	0
Eng. 233-234. Introduction to Literature.....	3	3
Hth. 200. Personal and Community Health.....	0	2
Eco. 230-235. Principles of Economics.....	3	3
Electives	0	2
	<hr/> 15	<hr/> 16

*Courses *not* required for student taking the *Office Management sequence*. Students who choose the *Office Management sequence* will take the following courses: Bus. Adm. 390; Bus. Adm. 489; Bus. Ed. 450; 6 semester hours of office administration electives.

SENIOR YEAR

<i>Credits per Semester:</i>		<i>1st</i>	<i>2nd</i>
Bus. Adm. 495. Business Law	0	3	
Bus. Ed. 320. Office Management	3	0	
Bus. Ed. 378*. Dictation and Transcription	0	3	
Psy. 231-232. General Psychology	3	3	
or			
215-216. Applied Psychology; Psychology in Business and Industry			
Electives	10	7	
	<hr/> 16	<hr/> 16	



Description of Courses

BUSINESS EDUCATION 100. *Introduction to Business* (I or II; 3, 0), 3 credits.

A general survey of the institution of business, with emphasis on the history of business, the basic forms of business organization, ownership, finance, management, wages, and labor relations.

BUSINESS EDUCATION 121-122. *Elementary Shorthand* (I or II; 3, 0), 3 credits.

Intended to give the student a thorough understanding of the principles of Gregg Shorthand. Rapid sight reading of context material and accurate transcription of nonpreviewed dictation at eighty words per minute for three minutes are required for completion of this course.

BUSINESS EDUCATION 131. *Elementary Typewriting* (I or II; 3, 0), 3 credits.

The development of proper typewriting techniques and mastery of the typewriter keyboard with a minimum typewriting speed of thirty words a minute are required for this course.

BUSINESS EDUCATION 132. *Intermediate Typewriting* (I or II; 3, 0), 3 credits.

This course includes a continuation of the development in typewriting correct letter forms, manuscripts, and simple statistical work. A minimum typewriting speed of fifty words a minute is required for completion of this course. *Prerequisite: Bus. Ed. 131 (or equivalent).*

BUSINESS EDUCATION 223-224. *Advanced Shorthand* (I or II; 3, 0), 3 credits.

A complete review of Gregg Shorthand theory, plus additional emphasis on phrasing, enlargement of vocabulary, speed in writing and transcribing. A dictation speed of one hundred words per minute and a transcription rate of at least twenty words per minute are required for completion of the course. *Prerequisite: Bus. Ed. 121-122 (or equivalent).*

BUSINESS EDUCATION 233. *Advanced Typewriting* (I or II; 3, 0), 3 credits.

The purpose of this course is to further the increase in speed and accuracy skills. Emphasis is placed on production techniques in the typewriting or business forms, letters, manuscripts, legal documents, and statistical tables. *Prerequisite: Bus. Ed. 132 (or equivalent).*

BUSINESS EDUCATION 234. *Office Procedures* (II; 3, 0), 3 credits.

This course includes filing and secretarial office machines. A complete study of the several filing systems as applied to business. Classroom and actual experience in using a variety of composing, duplicating, dictating and transcribing equipment. *Prerequisite: Typewriting.*

BUSINESS EDUCATION 270. *Business Machines* (I or II; 3, 2), 3 credits.

A development of vocational competency in modern office machines. A program including skills needed to operate the latest business computing machines. Practical business problems are a part of the course.

BUSINESS EDUCATION 320. *Office Management* (II; 3, 0), 3 credits.

A course consisting of the problems concerned with planning and installing office methods and systems; effective correspondence procedures; preparation of reports; office supervision and control.

BUSINESS EDUCATION 330. *Business Communication* (I or II; 3, 0), 3 credits.

Development of the principles of effective business communications through the composition of business letters (application, credit, adjustment, collection, sales, promotional letters, and routine business correspondence), oral and written business reports, and dictation. Emphasis is placed on composition, arrangement, style, spelling, and positive writing. *Prerequisites: Eng. 101-102; Typewriting.*

BUSINESS EDUCATION 339. *Data Processing for Management* (I or II; 3, 0), 3 credits.

A course in data processing methods for business management. Methods, problems and principles of data processing are explored together with their impact on management. Included is a survey of data processing instruments, systems and potential of their application. This course will equip the student to communicate with data processors, and understand the basics of data processing but will not prepare the student for technical employment in the field. (This course is not a substitute for Bus. Ed. 340.)

BUSINESS EDUCATION 340. *Data Processing for Business* (I or II; 3, 2), 3 credits.

A course designed to provide information in the areas of data processing. It stresses the development and usage of unit record and computer equipment and the language of data processing. Basic knowledge and application of problems on all unit record equipment. *Prerequisite: Typewriting.*

BUSINESS EDUCATION 350. *Problems in Data Processing* (I or II; 3, 2), 3 credits.

Advanced problems and unit record accounting machine and collator. Introduction to computers, including basic understanding of computers in general, flowcharting, and simple programming of IBM equipment. *Prerequisite: Bus. Ed. 340.*

BUSINESS EDUCATION 370. *Methods and Materials in Teaching Basic Business* (I; 3, 0), 3 credits.

The objectives, principles, and curriculum of education and business education on the secondary level are followed by techniques, materials, and procedures which may be used effectively in teaching the basic business subjects.

BUSINESS EDUCATION 378. *Dictation and Transcription* (II; 3, 0), 3 credits.

Designed to give the student advanced training in both typewriting and shorthand. Opportunity is provided for experience in taking rapid dictation, in transcribing, and in improving typewriting speed and accuracy, and the ability to work with applied typewriting problems.

BUSINESS EDUCATION 450-460. *Computers in Business* (I and II; 3, 2), 3 credits.

A practical course for analyzing problems, flowcharting and writing programs for a variety of business records. Hands on computer experience. It familiarizes the student with peripheral equipment and software, and employment possibilities. *Prerequisite: Bus. Ed. 340.*

BUSINESS EDUCATION 470. *Methods and Materials in Teaching Skill Subjects* (II; 3, 0), 3 credits.

The application of the psychological principles of building skill to the techniques, materials, and procedures for teaching effectively skills involved in typewriting, shorthand and transcription, and business machines.

BUSINESS EDUCATION 505. *Seminar in Business Education* (I or II; 3, 0), 3 credits.

A seminar studying the relationship of business education to business and industry to enable the teacher to obtain a better understanding of the free enterprise system. Field trips, consultants, and case studies are essential parts of the course.

BUSINESS EDUCATION 510. *Workshops in Business Education* (Summer only), 1 credit.

Comprehensive workshops in areas of business education to update and strengthen the business teacher through in-service education.

BUSINESS EDUCATION 520. *Advanced Studies in the Basic Business Subjects* (I or II; 3, 0), 3 credits.

Advanced studies for the improvement of the teaching of General Business, Business Law, Economics, Consumer Business Education, and related areas.

BUSINESS EDUCATION 530. *Advanced Studies in Business and Secretarial Machines* (I or II; 3, 0), 3 credits.

Advanced studies for the improvement of the teaching of business computing and secretarial machines. Hands-on experience is an essential part of the course.

BUSINESS EDUCATION 540. *Seminar in Computer Systems* (I or II; 3, 3), 3 credits.

A course in the basic understanding of computer installations and systems, including all forms of input and output, capabilities of different central processing units, and languages for computers. Experience in program writing and hands-on operation of a business computer. *Prerequisite: Bus. Ed. 340.*

DEPARTMENT of History

DR. RAYMOND C. DINGLEDINE, JR., *Head of the Department*

Professors DINGLEDINE, JACKSON, and MCFARLAND

Associate Professors HENDERSON, MARSHALL, and WOOD

Assistant Professors BLAND, BOYD, J. CAMPBELL, GEROME, and HALLMAN

The Department of History offers a program designed for students whose primary academic interest is in history as an humanity or a social science. The program provides a broad background for careers in business and government as well as thorough preparation for teaching and the liberal professions.

The minimum requirement for a major in History is forty-eight (48) semester hours, including thirty (30) semester hours of history and eighteen (18) semester hours in the social sciences and the humanities. The thirty (30) hours of history must include History 233-234 (United States History) and History 255-256 (History of Civilization), or their equivalent, and History 495 (History Seminar). The eighteen (18) hours in the social sciences and humanities must include six (6) hours of political science and six (6) hours of economics. Courses in the humanities must be related to history and approved by the Head of the Department.

Students seeking teacher certification in secondary education should take the following courses: Psychology 233-234 (Human Growth and Development), Education 360 (Foundation of Curriculum), Education 370 (Methods and Materials in Teaching in the Secondary School), Education 470 (History and Philosophy of Educational Thought), and Education 480 (Directed Teaching).

Students interested in a program in the Department of History should consult Dr. Raymond C. Dingledine, 15 Keezell Hall.

Four-Year Program for a Major in History

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	3	0	
Eng. 101-102. Reading and Composition.....	3	3	
Hist. 233-234. United States History.....	3	3	
Math. 107-108. Fundamentals of Mathematics (or Math. 125-126. Introduction to College Mathematics)	3	3	
Mus. 200. Music in General Culture.....	0	3	
Basic Studies Requirement in Physical Education.....	1	1	
*Electives	3	3	
		<hr/>	<hr/>
		16	16

SOPHOMORE YEAR

Eng. 233-234. Introduction to Literature.....	3	3	
Hist. 255-256. History of Civilization.....	3	3	
Psy. 231-232. General Psychology (or Psy. 233-234. Human Growth and Development).....	3	3	
Basic Studies Requirement in Physical Education	1	1	
Basic Studies Requirement in Biological Science	4	0	
Basic Studies Requirement in a Physical Science	0	4	
Electives	2	2	
		<hr/>	<hr/>
		16	16

JUNIOR YEAR

Hth. 200. Personal and Community Health.....	2	0	
Spch. 200. Oral Communication	0	2	
**Electives	14	14	
		<hr/>	<hr/>
		16	16

SENIOR YEAR

Hist. 495. History Seminar	0	2	
Electives	16	14	
		<hr/>	<hr/>
		16	16

*Students desiring the B.A. degree should schedule a foreign language.

**Students desiring the B.S. degree should schedule a 4 hour science course.

Four-Year Program for a Major in History Qualifying for the Secondary Collegiate Professional Certificate

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	3	0	
Eng. 101-102. Reading and Composition.....	3	3	
Hist. 233-234. United States History.....	3	3	
Math. 107-108. Fundamentals of Mathematics (or Math. 125-126. Introduction to College Mathematics) ..	3	3	
Mus. 200. Music in General Culture.....	0	3	
Basic Studies Requirement in Physical Education.....	1	1	
*Electives	3	3	
	<hr/>	<hr/>	
	16	16	

SOPHOMORE YEAR

Eng. 233-234. Introduction to Literature.....	3	3	
Hist. 255-256. History of Civilization.....	3	3	
Psy. 233-234. Human Growth and Development.....	3	3	
Basic Studies Requirement in Physical Education	1	1	
Basic Studies Requirement in Biological Science	4	0	
Basic Studies Requirement in a Physical Science	0	4	
Electives	2	2	
	<hr/>	<hr/>	
	16	16	

JUNIOR YEAR

Ed. 360. Foundations of Curriculum.....	3	0	
Hth. 200. Personal and Community Health.....	2	0	
Spch. 200. Oral Communication	0	2	
**Electives	11	14	
	<hr/>	<hr/>	
	16	16	

SENIOR YEAR

Ed. 370. Methods and Materials in Teaching in the Secondary School	3	0	
Ed. 480. Directed Teaching	0	8	
Ed. 470. History and Philosophy of Educational Thought..	0	3	
Hist. Seminar	0	2	
Electives	13	3	
	<hr/>	<hr/>	
	16	16	

*Students desiring the B.A. degree should schedule a foreign language.

**Students desiring the B.S. degree should schedule a 4 hour science course.

HISTORY 233-234. *United States History* (I and II; 3, 0), 3 credits.

A survey of United States History from 1776 to the present. Interpretation and analysis are stressed. The first semester covers the period to 1877; the second semester, from 1877 to the present.

HISTORY 255-256. *History of Civilization* (I and II; 3, 0), 3 credits.

A survey of important developments from pre-historic times to the present. Emphasis is given to the rise and decline of great civilizations and their lasting contributions to mankind, the growth of nationalism, the development of colonialism, and the events, problems, and conflicts of the present century. The first semester covers world history to the mid-seventeenth century; the second semester, from the mid-seventeenth century to the present.

HISTORY 348. *Colonial American History* (I or II; 3, 0), 3 credits.

An interpretive survey of England's mainland colonies from 1558 to 1775.

HISTORY 350. *Virginia History* (I or II; 3, 0), 3 credits.

An interpretive survey of the history of Virginia from its colonial beginnings to the present time.

HISTORY 363. *History of Africa* (I or II; 3, 0), 3 credits.

This course emphasizes the social and cultural aspects as well as the emerging role the continent plays in contemporary world history.

HISTORY 367. *History of Latin America* (I; 3, 0), 3 credits.

A survey of the history and culture of Latin America with emphasis on the colonial experience and the national period to 1900.

HISTORY 368. *Contemporary Latin America* (II; 3, 0), 3 credits.

A study of the political, economic, social, and cultural history of Latin America during the twentieth century. Special attention will be given to selected countries which have played a leading role in Latin-American affairs.

HISTORY 380. *Modern Russia* (I or II; 3, 0), 3 credits.

An introduction to the history of nineteenth and twentieth century Russian history. Emphasis is placed on the decline of imperial Russia, the origin of the revolutionary movement, and the rise of the contemporary Soviet State.

HISTORY 383. *Early England* (I; 3, 0), 3 credits.

This course is a survey of England during her formative centuries. Emphasis is given to the mingling of the races and the making of the nation. Special attention is given to the evolution of British government and also to its influence upon the political ideas and institutions of the United States.

HISTORY 384. *England and the Empire-Commonwealth* (II; 3, 0), 3 credits.

This course traces the history of England from the early eighteenth century down to the present. Emphasis is placed upon the development of the cabinet form of government, the industrial revolution, and particularly to the growth and organization of the Empire-Commonwealth and its role in world affairs.

HISTORY 389. *History of Modern Asia* (I or II; 3, 0), 3 credits.

An introduction to the history of India, China, Japan, Korea, and Southeast Asia during the past century. Emphasis is placed upon the impact of Western Civilization upon the area and the consequent internal political, economic, and intellectual changes.

HISTORY 476. *Ancient History* (I or II; 3, 0), 3 credits.

This course is a survey of the rise and fall of ancient civilizations with concentration on the contributions of Greece and Rome to the Western Civilization.

HISTORY 477. *Medieval History* (I; 3, 0), 3 credits.

This course focuses attention on Europe in the Middle Ages, with a concentration on social and intellectual aspects and on the development of parliamentary institutions.

HISTORY 478. *Renaissance and Reformation* (II; 3, 0), 3 credits.

This course focuses attention on cultural, intellectual, political, and social outgrowth of High Medieval civilization as an introduction to the history of Modern Europe. Special consideration is given to the Italian Renaissance of the fine arts, to the fragmentation of Western Christendom, to the intellectual impact of Luther and Calvin on Western thought, and to the political and social structure of Tudor despotism in England.

HISTORY 483. *Europe from 1648-1763* (I or II; 3, 0), 3 credits.

An interpretive study of Europe from the Peace of Westphalia to the mid-eighteenth century crisis of enlightened absolutism. Special attention is given to the political and physical development of Europe, to intellectual aspects of the English Revolution, and to the westernization of Russia.

HISTORY 485. *Nineteenth Century European Civilization, 1815-1914* (I; 3, 0), 3 credits.

An interpretive study of European civilization from the Peace of Vienna to the outbreak of the First World War. Attention is given to the intellectual and social climate of the period with emphasis on significant movements such as liberalism, nationalism, industrialism, imperialism, and the beginnings of socialism.

HISTORY 486. *Europe Since 1914* (II; 3, 0), 3 credits.

An interpretive study of European history from the First World War to the era of the Cold War, with special emphasis on such topics as the

Peace of Versailles, the rise of totalitarianism the origins of the Second World War, and the diplomatic and military history of the Second World War.

HISTORY 488. *Mexico, Central America and the Caribbean* (I or II; 3, 0), 3 credits.

A regional study of the history of Central American and Caribbean nations with special emphasis given to Mexico from the Revolution of 1910 to the present.

HISTORY 490. *Special Studies in History* (I or II; 3, 0), 3 credits.

Designed to give capable students in History an opportunity to do independent study under faculty supervision. *Prerequisite: Recommendation of the supervising instructor and permission of the Head of the Department.*

HISTORY 495. *History Seminar* (I or II; 2, 0), 2 credits.

A course for senior history majors in research methodology and the nature and philosophy of history, with emphasis on American historiography and problems of interpretation. *Required of History Majors.*

HISTORY 499. *Honors* (I and II; 3, 0), 6 credits. Year Course.

HISTORY 520. *United States History, 1763-1800* (I or II; 3, 0), 3 credits.

An interpretive study of the political, economic, social, and cultural history of the United States from the French and Indian War through the Federalist period.

HISTORY 525. *United States History, 1800-1850* (I or II; 3, 0), 3 credits.

An interpretive study of the political, economic, social and cultural history of the United States from the election of Jefferson to the Compromise of 1850.

HISTORY 526. *Civil War and Reconstruction* (I or II; 3, 0), 3 credits.

A detailed study of the background, development, personalities, and aftermath of the Civil War. Special attention is given to the coming of the War and different explanations of its causes, and to the policies and significance of Reconstruction, with varying interpretations thereof.

HISTORY 530. *United States History, 1877-1917* (I or II; 3, 0), 3 credits.

An interpretive study of United States History from Reconstruction to World War I. Special attention is given to the nation's emergence as an industrial and urban society and as a world power, and to third party and reform movements of the late nineteenth and early twentieth centuries.

HISTORY 531. *United States History Since 1917* (I or II; 3, 0), 3 credits.

An interpretive study of the history of the United States since World War I with emphasis on political, economic, intellectual, and social history.

HISTORY 532. *The United States and the Contemporary World* (I or II; 3, 0), 3 credits.

A study of the changes in United States diplomacy from 1941 to the present. Primary emphasis will be on the development of the Cold War, the relations with newly independent nations, and the attempts to maintain security in an uncertain world.

HISTORY 539. *American Cultural and Intellectual History to 1876* (I or II; 3, 0), 3 credits.

A survey of the main aspects of American thought—social, religious, aesthetic and scientific—to 1876. Intellectual developments will be considered with reference to political and economic conditions.

HISTORY 540. *American Cultural and Intellectual History* (I or II; 3, 0), 3 credits.

A survey of the main aspects of American thought—social, religious, aesthetic and scientific—since 1876. Intellectual developments will be considered with reference to political and economic conditions.

HISTORY 545. *Latin America and the United States* (I or II; 3, 0), 3 credits.

An examination of the diplomatic relations between Latin America and the United States from the era of the Latin American revolutions for independence to the present. Emphasis will be placed on the Monroe Doctrine and its extensions, and the development of the Pan-American system.

HISTORY 550. *Medieval Civilization* (I or II; 3, 0), 3 credits.

A survey of Medieval Civilization from its foundation in the fourth century to its peak of development in the twelfth and thirteenth centuries. Emphasis will be placed on the Greco-Roman, Christian, and German bases of Medieval Culture and on the development of representative political institutions in Western Europe.

HISTORY 560. *Modern France* (I or II; 3, 0), 3 credits.

A study of France from 1848 to 1958, covering the Second Republic, Second Empire, Third Republic and Fourth Republic, with emphasis on the problems of a modern nation attempting to govern itself.

HISTORY 561. *Modern Germany, 1648-1848* (I or II; 3, 0), 3 credits.

A survey of the history of the Germanic-speaking lands of Central Europe from the Peace of Westphalia to the revolutions of 1848. Emphasis will be given to political, social, economic, and cultural developments in all the German states, with special attention being given to Austria and Prussia.

HISTORY 562. *Modern Germany, 1848-1945* (I or II; 3, 0), 3 credits.

A survey of the history of Germany during the struggle for unification, 1848-1871; the Second Reich, 1871-1918; the Weimar Republic, 1918-

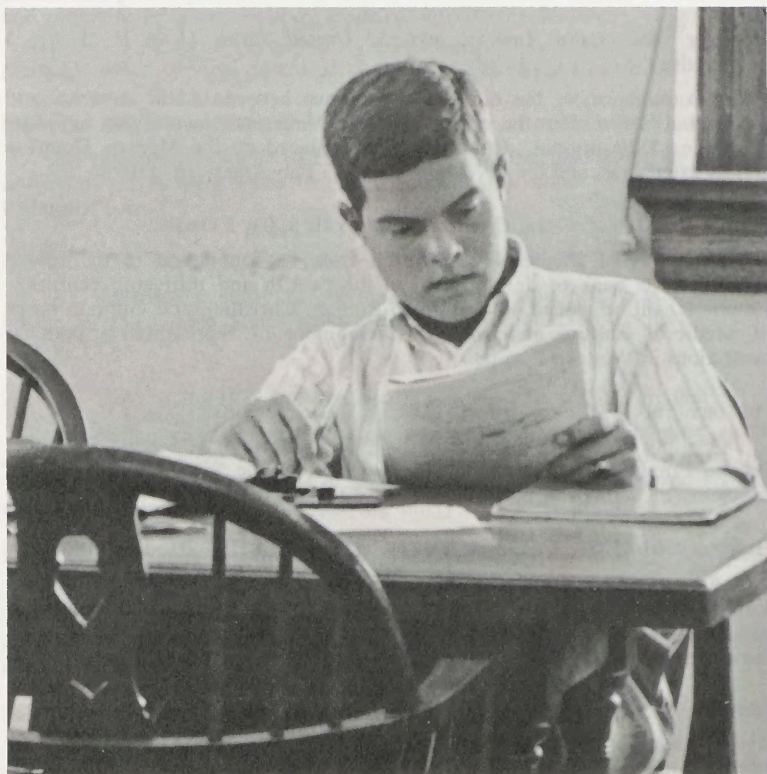
1933; and the Third Reich, 1933-1945. Emphasis will be given to political, economic, military, social and cultural developments of the period.

HISTORY 565. *Twentieth Century Britain* (I or II; 3, 0), 3 credits.

An examination of the major themes of British history in the twentieth century. The course will include material on political, social, economic, diplomatic, and imperial topics from the pre-World War I decade down through the post-World War II decade.

HISTORY 570. *Europe and the French Imperium, 1763 to 1815* (I or II; 3, 0), 3 credits.

This course is concerned with vital philosophical, social, and economic aspects of the age of the democratic revolutions. Special attention is given to an interpretive study of the Enlightenment, to the historiography of the French Revolution, and to the career of Napoleon.



DEPARTMENT

of Home Economics

DR. DOROTHY ROWE, *Head of the Department*

Professor ROWE

Assistant Professors C. DAVIS, C. DRIVER, LINEHAN, M. SIEG, and PRODELL

The Department of Home Economics offers programs designed to educate young people for home and family life and for the professions which serve homes, families and the community.

Majors are offered in vocational home economics education, dietetics, and general home economics.

The vocational home economics major meets the requirements set up by the Vocational Division of the United States Office of Education and the standards set up by the State Department of Education.

The major in dietetics meets the academic requirements set up by the American Dietetic Association. Graduates are eligible for appointment to dietetic internships approved by the American Dietetic Association.

The general home economics major offers an opportunity to concentrate in costume design, housing and interior design, nursery school—day care centers, home economics in business, extension service, merchandising of clothing and home furnishings, and test kitchen research or food research. Suggested programs for these concentrations can be gotten upon request from Dr. Dorothy Rowe.

With careful planning, a double major in Home Economics Education and Dietetics can be accomplished.

The following courses are required of all students majoring in the Department of Home Economics: Home Economics 133 (The Contemporary Family), Home Economics 140 (Foods), Home Economics 180 (Elementary Nutrition), Home Economics 250 (Equipment and Physical Science in the Home), Home Economics 270 (Management in Relation to Personal and Family Resources), Home Economics 300 (Child Development), Home Economics 320 (Consumer Economics), Home Economics 330 (Family Relations), and Home Economics 470 (Home Management Residence).

The minimum requirement for a minor in Home Economics is eighteen (18) semester hours including the following required courses: Home Economics 320 (Consumer Economics) and Home Economics 330 (Family Relations).

Students interested in a program in the Department of Home Economics should consult Dr. Dorothy Rowe, 210 Moody Hall.

Four-Year Program for a Major in General Home Economics

FRESHMAN YEAR

<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 110. General Biology	4	0
Chem. 110. General Chemistry	0	4
Eng. 101-102. Reading and Composition.....	3	3
Hth. 200. Personal and Community Health.....	0	2
H.E. 133. The Contemporary Family.....	3	0
H.E. 180. Elementary Nutrition	0	3
Math. 107-108. Fundamentals of Mathematics (or Math. 125-126. Introduction to College Mathematics)	3	3
Spch. 200. Oral Communication	2	0
Basic Studies Requirement in Physical Education.....	1	1
	<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Art 200. Art in General Culture.....	3	0
Eng. 233-234. Introduction to Literature.....	3	3
Hist. 233-234. United States History.....	3	3
H.E. 140. Foods	3	0
H.E. 210. Clothing Selection and Construction.....	0	3
Psy. 231-232. General Psychology (or Psy. 233-234. Human Growth and Development).....	3	3
Soc. 139. Principles of Sociology.....	0	3
Basic Studies Requirement in Physical Education.....	1	1
	<hr/> 16	<hr/> 16

JUNIOR YEAR

Eco. 220. Survey of Economics.....	0	3
H.E. 250. Equipment and Physical Science in the Home...	4	0
H.E. 270. Management in Relation to Personal and Family Resources	2	0
H.E. 290. Textiles	0	3
H.E. 300. Child Development	3	0
H.E. 320. Consumer Economics	0	2
H.E. 330. Family Relations	0	3
H.E. 350. Related Arts in the Home (or Art 240. Interior Design).....	3	0
H.E. 450. Family Housing	0	2
Mus. 200. Music in General Culture.....	3	0
Electives	0	3
	<hr/> 15	<hr/> 16

SENIOR YEAR

H.E. 370. Personal and Family Finances.....	2	0
H.E. 470. Home Management Residence.....	3	0
Electives in Home Economics.....	0	9
Electives	12	7
	<hr/> 17	<hr/> 16

Four-Year Program for a Major in Home Economics Education

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 110. General Biology	4	0	
Chem. 110. General Chemistry	0	4	
Eng. 101-102. Reading and Composition.....	3	3	
Hth. 200. Personal and Community Health.....	0	2	
H.E. 133. The Contemporary Family.....	3	0	
H.E. 180. Elementary Nutrition	0	3	
Math. 107-108. Fundamentals of Mathematics (or Math. 125-126. Introduction to College Mathematics).....	3	3	
Spch. 200. Oral Communication	2	0	
Basic Studies Requirement in Physical Education	1	1	
	<hr/>	<hr/>	
	16	16	

SOPHOMORE YEAR

Art 200. Art in General Culture.....	3	0	
Eng. 233-234. Introduction to Literature.....	3	3	
Hist. 233-234. United States History.....	3	3	
H.E. 140. Foods	3	0	
H.E. 210. Clothing Selection and Construction.....	0	3	
Psy. 233-234. Human Growth and Development.....	3	3	
Soc. 139. Principles of Sociology.....	0	3	
Basic Studies Requirement in Physical Education.....	1	1	
	<hr/>	<hr/>	
	16	16	

JUNIOR YEAR

Eco. 220. Survey of Economics.....	3	0	
H.E. 250. Equipment and Physical Science in the Home...	0	4	
H.E. 270. Management in Relation to Personal and Family Resources	2	0	
H.E. 290. Textiles	3	0	
H.E. 300. Child Development	0	3	
H.E. 310. Tailoring Techniques (or H.E. 410. Flat Pattern Design and Costume Art).....	0	3	
H.E. 320. Consumer Economics	0	2	
H.E. 350. Related Arts in the Home (or Art 240. Interior Design)	3	0	
H.E. 370. Personal and Family Finances.....	0	2	
H.E. 380. Advanced Nutrition (or H.E. 446. Experimental Foods)	3	0	
H.E. Ed. 303. Home Economics Education.....	3	0	
Mus. 200. Music in General Culture.....	0	3	
	<hr/>	<hr/>	
	17	17	

SENIOR YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Ed. 360. Foundations of Curriculum.....	3	0	
Ed. 470. History and Philosophy of Educational Thought..	3	0	
H.E. 330. Family Relations	3	0	
H.E. 450. Family Housing	2	0	
H.E. 470. Home Management Residence.....	0	3	
H.E. Ed. 400. Vocational Home Economics.....	0	3	
H.E. Ed. 404. Home Economics in Occupational Training.	3	0	
H.E. Ed. 480. Directed Teaching in Home Economics....	0	8	
Electives	0	2	
		<hr/>	<hr/>
		14	16



Four-Year Program for a Major in Dietetics

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	0	3	
Bio. 110. General Biology	4	0	
Chem. 101-102. General Chemistry	4	4	
Eng. 101-102. Reading and Composition.....	3	3	
H.E. 133. The Contemporary Family.....	3	0	
H.E. 140. Foods	0	3	
Soc. 139. Principles of Sociology.....	0	3	
Spch. 200. Oral Communication	2	0	
Basic Studies Requirement in Physical Education.....	1	1	
		<hr/>	<hr/>
		17	17

SOPHOMORE YEAR

Chem. 237. Organic Chemistry	4	0	
Chem. 238. Biochemistry	0	4	
Eng. 233-234. Introduction to Literature.....	3	3	
Hist. 233-234. United States History.....	3	3	
H.E. 180. Elementary Nutrition	3	0	
Math. 107-108. Fundamentals of Mathematics (or Math. 125-126. Introduction to College Mathematics).....	3	3	
Mus. 200. Music in General Culture.....	0	3	
Basic Studies Requirement in Physical Education.....	1	1	
		<hr/>	<hr/>
		17	17

JUNIOR YEAR

Bio. 270. Human Physiology	3	0	
Bio. 280. Bacteriology	0	4	
Eco. 220. Survey of Economics.....	0	3	
Hth. 200. Personal and Community Health.....	0	2	
H.E. 250. Equipment and Physical Science in the Home..	4	0	
H.E. 270. Management in Relation to Personal and Family Resources	0	2	
H.E. 320. Consumer Economics	0	2	
H.E. 380. Advanced Nutrition	3	0	
Psy. 233-234. Human Growth and Development.....	3	3	
Electives	1	0	
		<hr/>	<hr/>
		14	16

SENIOR YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bus. 489. Personnel Administration	3	0	
H.E. 300. Child Development	3	0	
H.E. 330. Family Relations	0	3	
H.E. 363. Quantity Food Production and Service.....	0	3	
H.E. 365. Quantity Food Purchasing	3	0	
H.E. 446. Experimental Foods (or H.E. 445. Advanced Foods)	0	3	
H.E. 463. Institution Equipment and Maintenance.....	3	0	
H.E. 465. Institution Organization and Management.....	3	0	
H.E. 470. Home Management Residence.....	0	3	
H.E. 484. Diet Therapy	0	3	
		<hr/> 15	<hr/> 15



Description of Courses

HOME ECONOMICS 133. *The Contemporary Family* (I; 3, 0), 3 credits.

Emphasis is placed on the influence of the family unit and the responsibilities which men and women assume when they establish a home.

HOME ECONOMICS 140. *Foods* (I or II; 2, 2), 3 credits.

The basic principles of preparation of foods are the main emphases in this course. Introduction is made to menu planning and food service. Laboratory activities are planned to acquaint the student with desirable standard products in each food group.

HOME ECONOMICS 180. *Elementary Nutrition* (I or II; 3, 0), 3 credits.

A study is made of the nutritive properties of foods and of the requirements of the body. Application is made to the individual under normal conditions of health.

HOME ECONOMICS 210. *Clothing Selection and Construction* (I or II; 1, 4), 3 credits.

A study of the problems of clothing selection for the student and family members. The practicing of the principles of the wise choice of fabrics and the learning of basic skills of clothing construction.

HOME ECONOMICS 250. *Equipment and Physical Science in the Home* (I or II; 3, 2), 4 credits.

A study of the selection, use, care and maintenance of household equipment. Basic principles from mechanics, electricity, heat, sound, light, atomic energy, and electronics applied to household equipment. Water conditioning for the home. Chemical characteristics and use of laundry and cleaning supplies.

HOME ECONOMICS 270. *Management in Relation to Personal and Family Resources* (I or II; 2, 0), 2 credits.

A study of the concepts and functions of home management, the concerns, goals and values reflected in the way non-financial resources are used.

HOME ECONOMICS 290. *Textile* (I or II; 3, 0), 3 credits.

A general study of the physical and chemical characteristics of the natural and man-made fibers in relation to their choice, care and use.

HOME ECONOMICS 300. *Child Development* (I or II; 3, 0), 3 credits.

A study is made of factors involved in the physical, intellectual, social, and emotional growth of the young child. Special emphasis is given to the importance of family relations. The student has opportunities to work with young children both in families of the community and in the campus nursery school. *Prerequisite: Psy. 231-232, Psy. 233-234 (or equivalent).*

HOME ECONOMICS 310. *Tailoring Techniques* (I or II; 1, 4), 3 credits.

The values and qualities of tailored garments are studied comparing techniques of the custom detailed garment and the quick method garment construction. *Prerequisite: H.E. 210 (or equivalent)*.

HOME ECONOMICS 320. *Consumer Economics* (I or II; 2, 0), 2 credits.

This course is a study of the consumer aspect of activity in our economic system. It deals with the problems of the family relating to judging quality, checking quantity, and comparing prices in consumer buying. *Prerequisite: Eco. 210*.

HOME ECONOMICS 330. *Family Relations* (I or II; 3, 0), 3 credits.

A study of the relations in modern family living with emphasis on dating, courtship, marriage, marital adjustment, and intergeneration relations.

HOME ECONOMICS 343. *Demonstration Cookery* (I; 1, 4), 3 credits.

The use of the lecture-demonstration for imparting knowledge is the basis of this course. Laboratory experiences are provided to demonstrate how the business home economist, teacher and extension worker can effectively use this technique. *Prerequisite: H.E. 140 (or equivalent)*.

HOME ECONOMICS 350. *Related Arts in the Home* (I or II; 1, 4), 3 credits.

This course deals with selection of furnishings for the home and interior decoration. Laboratory hours devoted to construction of draperies and slip-covers; restoring accessories and furniture. Field trips are an integral part of this course.

HOME ECONOMICS 363. *Quantity Food Production and Service* (I; 2, 3), 3 credits.

The principles of quantity food production and service are studied.

HOME ECONOMICS 364. *Meat Selection and Utilization* (II; 2, 2), 3 credits.

The selection of meats and cutting meats, carcass grading, prepared meats and meat products, frozen meats and meat preparation.

HOME ECONOMICS 365. *Quantity Food Purchasing* (I; 3, 0), 3 credits.

A discussion of sources, standards of quality, grades, methods of purchase, care, and storage of different types of food. Field trips are an integral part of the course.

HOME ECONOMICS 370. *Personal and Family Finances* (I or II; 2, 0), 2 credits.

Financial managerial problems of the individual and family. Emphasis on financial planning, factors influencing use of money, how individuals and

families try to achieve security against economic risks; use of credit and inter-relationship of money and other resources.

HOME ECONOMICS 380. *Advanced Nutrition* (I or II; 2, 2), 3 credits.

The nutrients and their role in intermediary metabolism is studied. Application is made to feeding individuals, families, and the world. Experimental animals are used for feeding studies. *Prerequisite: H.E. 180 (or equivalent).*

HOME ECONOMICS 384. *Child Nutrition* (II; 2, 0), 2 credits.

A study of the nutritional needs of young children and implications involved in his emotional, social, and physical development.

HOME ECONOMICS 410. *Flat Pattern Design and Costume Art* (I or II; 1, 4), 3 credits.

A study of the scope of the clothing area and an understanding of the world of fashion. Creativity is stressed in the designing of garments. This course offers an opportunity to achieve a better knowledge of garment-fitting.

HOME ECONOMICS 445. *Advanced Foods* (I; 1, 4), 3 credits.

An introduction to haute cuisine. The laboratory provides opportunity to become familiar with gourmet foods and their preparation. *Prerequisite: H.E. 140.*

HOME ECONOMICS 446. *Experimental Foods* (II; 1, 4), 3 credits.

An introduction to research in foods. Different techniques of food preparation are studied and evaluated for most acceptable methods to obtain standard food products. *Prerequisite: H.E. 140 (or equivalent).*

HOME ECONOMICS 450. *Family Housing* (I or II; 2, 0), 2 credits.

Social, economic, and technological factors relating to planning for family housing. To acquire an understanding of blueprints and judging house plans. A study of the effective use of space, housing regulations, and restrictions; site selection and neighborhood development. This course is closely correlated with basic art and equipment and physical science in the home.

HOME ECONOMICS 460. *Food Production Management* (I or II; 3-5, 9-15), 3-5 credits.

The management of food production in institutions, including quality control, recipe standardization, portion and cost control, menu planning and work simplification. Supervised experience in food service management in the campus food services. *Prerequisite: H.E. 363.*

HOME ECONOMICS 463. *Institution Equipment and Maintenance* (I; 3, 0), 3 credits.

The emphasis is on the selection, buying, and placing of institution equipment. Field trips are an integral part of this course.

HOME ECONOMICS 464. *Food Cost Accounting* (I; 3, 0), 3 credits.
Accounting procedures and budget control of food services are studied.

HOME ECONOMICS 465. *Institution Organization and Management* (I; 3, 0), 3 credits.

Organization, management, personnel, and labor as they pertain to the responsibilities of a food service director are studied.

HOME ECONOMICS 466. *Institution Equipment Layout* (II; 3, 0), 3 credits.

The planning of equipment layout and arrangements for various types of institutional food services. Field trips are an integral part of the course. *Prerequisite: H.E. 463.*

HOME ECONOMICS 468. *Commercial Food Management* (II; 2-5, 6-15), 2-5 credits.

Management of a commercial food service operation with emphasis on merchandising and cost control. Supervised experience offered in selected commercial establishments. *Prerequisite: H.E. 460.*

HOME ECONOMICS 470. *Home Management Residence* (I or II; 1, 6), 3 credits.

Democratic principles in family living constitute the basis upon which the home management experience is planned. The areas of responsibility are rotated to give each family member experience in all phases of home-making with emphasis upon management of time, energy, and other resources. Residence in Varner House required. A scholarship index of 2.00 is required for residence. *Prerequisites: H.E. 133, 140, 180, 250, 320 (or equivalent).*

HOME ECONOMICS 474. *Managing a Home* (II; 2, 0), 2 credits.

This course is designed for students who are not home economics majors. The course gives some insight into and appreciation of the problems involved in managing a home.

HOME ECONOMICS 484. *Diet Therapy* (II; 2, 2), 3 credits.

A study of the use of diet in preventing illness and as a means of treating disease. *Prerequisite: H.E. 380 and Chem. 238.*

HOME ECONOMICS 497-498. *Special Studies in Home Economics* (I and II; 1-3, 0), 1-3 credits.

Capable students may select to do independent study in an area of home economics under faculty supervision. (Offered only with the consent of the Head of the Department).

HOME ECONOMICS 510. *Family Financial Management* (Summer; 3, 0), 3 credits.

Analysis of money expenditures of the family in the United States and use of the family income. Consumer's markets, standards, labels will be studied with the latest research information on houses, equipment, food, clothing, and savings. *Prerequisite: Undergraduate course in economics.*

HOME ECONOMICS 520. *World Nutrition Needs and Food Resources* (Summer; 3, 0), 3 credits.

The major world nutrition problems of today are analyzed. Identifying causative factors and investigating corrective measures are an integral part of the course.

HOME ECONOMICS 540. *Clothing Construction Techniques* (Summer; 1, 4), 3 credits.

The newer techniques in both custom and fast methods of clothing construction are studied. Emphasis is placed on fittings, underlinings, and finishing details. Garments are constructed incorporating the techniques studied. *Prerequisite: H.E. 210 (or equivalent).*

HOME ECONOMICS 590A. *Seminar in Occupational Training—Food Service* (Summer; 1, 0), 1 credit.

The theory and practical application of food service training as used in teaching vocational occupational food service courses in the high schools.

HOME ECONOMICS 590B. *Seminar in Consulting Dietetics* (Summer; 1, 0), 1 credit.

Areas of concern to the consulting dietitian will be studied: in-service and pre-service education, communications and human relations, diet planning, food purchasing, quantity and quality food production, sanitation, and equipment and layout.

HOME ECONOMICS 590C. *Seminar in Applied Nutrition* (Summer; 1, 0), 1 credit.

An in-depth investigation of new advances in human nutrition and diet therapy.

Home Economics Education

HOME ECONOMICS EDUCATION 303. *Home Economics Education* (I; 3, 0), 3 credits.

Students are provided experiences which help them formulate a philosophy of homemaking. Emphasis is placed upon principles of learning, studies of communities, and analyses of concerns of youth as a basis for cooperatively planning home and school activities. *Prerequisite: Psy. 233-234 (or equivalent).*

HOME ECONOMICS EDUCATION 400. *Vocational Home Economics* (I or II; 3, 0), 3 credits.

A survey of the development of Home Economics is made with emphasis upon the Vocational Homemaking program as developed cooperatively with local, state, and federal agencies. Students become acquainted with curriculum planning for employment in occupations using Home Economics knowledge and skills.

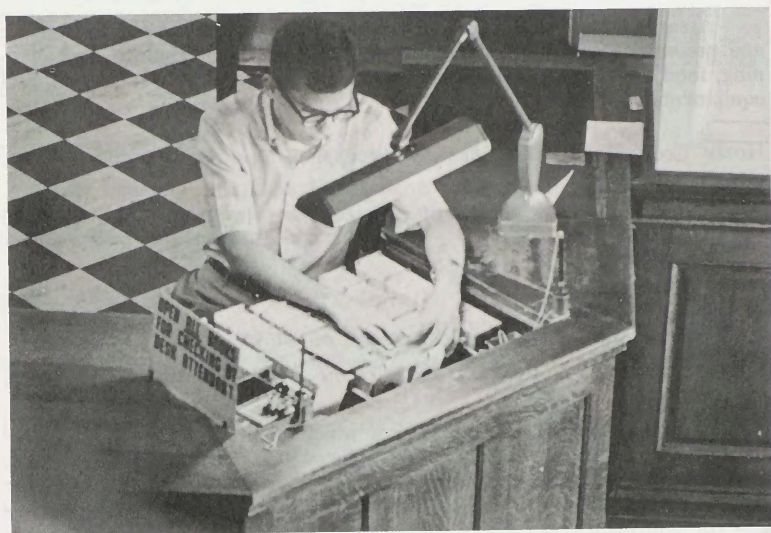
This course is prerequisite to supervised student teaching in home economics. *Prerequisite: H.E. Ed. 303 (or equivalent).*

HOME ECONOMICS EDUCATION 404. *Home Economics in Occupational Training* (II; 2, 3), 3 credits.

A study of procedure for organization of program and development of curriculum for occupational training programs in Food Service Occupations; Child Care Service Occupations; Clothing Service Occupations; and Home and Institutional Service Occupations with practical experience provided in each program.

HOME ECONOMICS EDUCATION 480. *Directed Teaching in Home Economics* (I or II), 8 credits.

The student assumes the responsibility for teaching in one of the high school centers under the supervision and direction of the resident supervisors. The student visits in the homes of the pupils in the community, attends professional meetings, and participates in the activities of the school and community. *Prerequisite: H.E. Ed. 400.*



DEPARTMENT

of Library Science

MR. FORREST C. PALMER, *Head of the Department*

Professor PALMER

Assistant Professors FINLAY, MASON, and RIDDLE

The Department of Library Science offers a program to provide the best possible preparation for students who plan to become school librarians and teacher-librarians in the public schools of Virginia, to prepare prospective elementary and secondary school teachers to make effective use of books, films, and other materials in their teaching, and to provide a basic undergraduate program preparatory for admission to graduate study in library science.

The minimum requirement for a major in Library Science is twenty-four (24) semester hours to include Library Science 240 (Children's Literature), Library Science 354 (Young People's Literature), Library Science 365 (Organization of Materials), Library Science 366 (Administration of School Libraries), Library Science 370 (Audio-Visual Materials), Library Science 477 (Reference and Bibliography), Library Science 478 (Cataloging), and Education 480X (four semester hours in student teaching and four semester hours in directed library service).

The minimum requirement for a minor in Library Science is eighteen (18) semester hours to include Library Science 240 (Children's Literature), Library Science 354 (Young People's Literature), Library Science 365 (Organization of Materials), Library Science 366 (Administration of School Libraries), Library Science 477 (Reference and Bibliography), and Education 480x (four semester hours in student teaching and four semester hours in directed library service). It should be noted that the requirements for a minor in Library Science do not satisfy certification requirements for the Collegiate Professional Certificate endorsed in Library Science. Students interested in a minor in Library Science should consult their course advisers to be sure they will meet certification requirements.

Students interested in a program in Library Science should consult Mr. Forrest Palmer, 27 Madison Memorial Library.

Four-Year Program for a Major in Library Science

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	3	0	
Bio. 110. General Biology	4	0	
Eng. 101-102. Reading and Composition	3	3	
Hist. 233-234. United States History.....	3	3	
Math. 107-108. Fundamentals of Mathematics (or Math. 125-126. Introduction to College Mathematics).....	3	3	
Mus. 200. Music in General Culture.....	0	3	
Basic Studies Requirement in Physical Education	1	1	
Basic Studies Requirement in a Physical Science	0	4	
	<hr/>	<hr/>	
	17	17	

SOPHOMORE YEAR

Eng. 233-234. Introduction to Literature.....	3	3	
Hth. 200. Personal and Community Health.....	2	0	
L.S. 240. Children's Literature	3	0	
L.S. 354. Young People's Literature	0	3	
Psy. 233-234. Human Growth and Development.....	3	3	
Spch. 200. Oral Communication	0	2	
Basic Studies Requirement in Physical Education	1	1	
Basic Studies Requirement in Social Science	3	3	
	<hr/>	<hr/>	
	15	15	

JUNIOR YEAR

Ed. 360. Foundations of Curriculum.....	3	0	
L.S. 365. Organization of Materials.....	3	0	
L.S. 366. Administration of School Libraries.....	0	3	
L.S. 370. Audio-Visual Materials (and/or 477. Reference and Bibliography; and/or 478. Cataloging).....	3	3	
Electives	7	10	
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	16	16	

SENIOR YEAR

Ed. 370. Methods and Materials in Teaching in the Secondary School	3	0	
Ed. 470. History and Philosophy of Educational Thought..	0	3	
Ed. 480x. Directed Teaching and Directed Library Service.	0	8	
L.S. Requirement not taken in Junior Year.....	3	0	
Electives	10	5	
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	16	16	

Description of Courses

LIBRARY SCIENCE 240. *Children's Literature* (I or II; 3, 0), 3 credits.

Principles and aids to help teachers become familiar with the literature available for children. Emphasis is placed upon wide acquaintance with the books to be used by the children. Some attention will be given to the history of children's literature, to general information books, to sources of reference materials, and to magazines for children.

LIBRARY SCIENCE 354. *Young People's Literature* (I or II; 3, 0), 3 credits.

The purpose of this course is to introduce students to the wealth of printed materials available for young people. Students will examine and read extensively among the books that have been written for young people in order to learn how to select and use the best reading material. A project in a subject and grade level of greatest interest to the student may be undertaken as a part of the course.

LIBRARY SCIENCE 365. *Organization of Materials* (I or II; 3, 0), 3 credits.

Acquisition and preparation of books and other materials for use. Methods of ordering, simplified cataloging, the mechanical preparation of materials, and circulation systems are considered.

LIBRARY SCIENCE 366. *Administration of School Libraries* (II; 3, 0), 3 credits.

The functions, organization, planning, equipment, and management of the school library. Methods of teaching the use of books and libraries will also be considered.

LIBRARY SCIENCE 370. *Audio-Visual Materials* (I or II; 3, arranged), 3 credits.

Principles of selection and evaluation of audio-visual materials, techniques for using these teaching materials in the classroom, laboratory experience in the operation of equipment, and previewing materials available for use in the Virginia public schools.

LIBRARY SCIENCE 477. *Reference and Bibliography* (I; 3, 0), 3 credits.

A study of school library reference materials, including encyclopedias, dictionaries, yearbooks, periodical indexes, and reference books in various fields. Attention is given to the techniques of reference work.

LIBRARY SCIENCE 478. *Cataloging* (I and II; 3, 3), 3 credits.

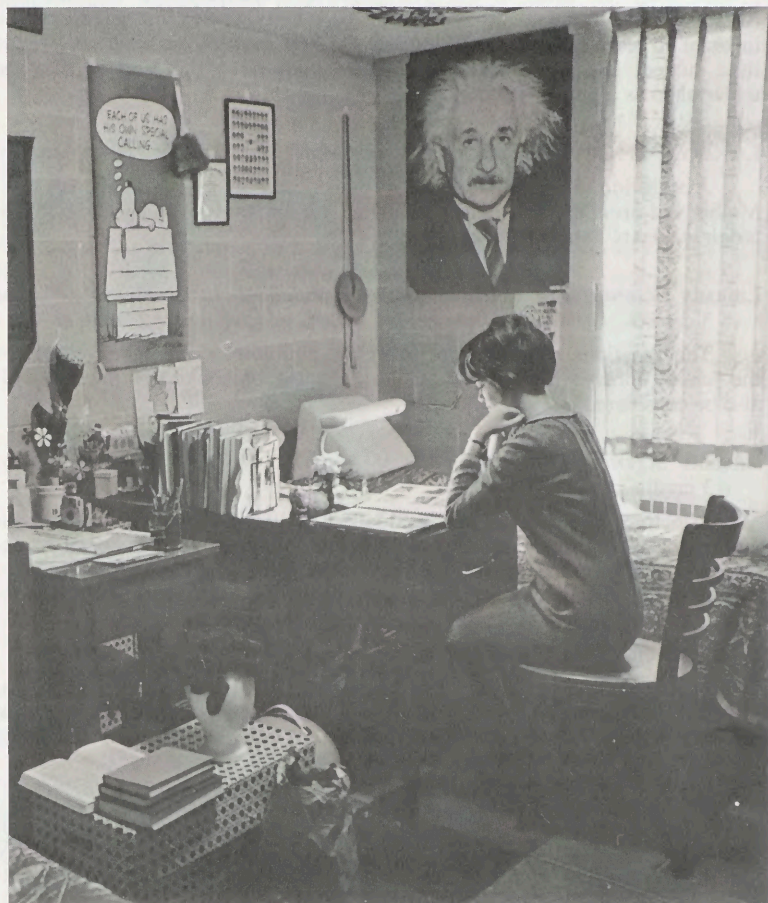
The principles and methods of the preparation of books for use in small libraries. Students will classify and catalog under supervision. Ability to use a typewriter is important. (Library Science 365 should be completed before enrolling in Library Science 478.)

LIBRARY SCIENCE 485. *Survey of Librarianship* (I; arranged), 3 credits.

Designed to acquaint the prospective school librarian with the whole field of libraries and library work. The course includes the history, accomplishments, and objectives of various types of libraries, with emphasis on current trends and the relation of libraries to society.

LIBRARY SCIENCE 490. *Problems in School Librarianship* (II; arranged), 3 credits.

This course provides an opportunity for intensive study of a specific topic in school librarianship. Each student will work individually on a project of his own choice. *Prerequisite: 24 semester hours of library science or approval of the Head of the Department.*



DEPARTMENT of Social Sciences

DR. ALMON TURLEY MACE, *Head of the Department*

Professors MACE, E. SMITH, B. FOX, A. HALL, and SANDERS

Associate Professor CLINE

Assistant Professors BROWN, HELLER, KINCHELOE, KIPPS, MECHTENSIMER,
RICE, PAUL, WALL, WHITMER, and WILHELM

Instructors ADKINS, BURNETT, and DOUGLAS

Lecturers BRADFIELD, DURRETT, EWART, LENNOX, and MCCREADY

The Department of Social Science offers programs of study leading to a major in Economics, Political Science, Sociology, Social Work or General Social Science and programs of study in Business Administration leading to a major in Management, Marketing or Accounting.

Students seeking teacher certification in secondary education should take the following courses: Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Education 370 (Methods and Materials in Teaching in the Secondary School), Education 470 (History and Philosophy of Educational Thought), and Education 480 (Directed Teaching) in the senior year.

Major in Economics

The minimum requirement for a major in Economics is thirty (30) semester hours including Economics 230-235 (Principles of Economics), Economics 314 (Economics of Labor), Economics 324 (Government and Industry), Economics 330-335 (Intermediate Economic Theory), Economics 478 (Economic History of the United States), Economics 480 (Senior Seminar in Economics) and seven (7) hours in electives in Economics. The program is designed to provide the student with an adequate background for advanced work at the graduate level. This program also meets the Collegiate Professional Certificate requirements for teaching Economics in the secondary schools.

Major in Political Science

The minimum requirement for a major in Political Science is thirty (30) semester hours. Political Science 225 (United States Government), Political Science 250 (International Politics), and Political Science 485 (Senior Seminar) are required. For the remainder of the thirty (30)

semester hours the student may choose from the following in Political Science: State and Local Government, Constitutional Law, American Political Thought, U. S. Foreign Policy, Political Dynamics, Urban Politics, Public Administration, The National Executive, The Legislative Process, The Judicial Process, Soviet Government and Politics, Governments of Western Europe, Major Governments of Asia, Governments of Latin America, International Politics, International Law and Organization, Contemporary World Problems. This program meets the Collegiate Professional Certificate requirements for teaching Political Science in the secondary schools and provides the student with a background for further graduate study.

Major in Sociology

The minimum requirements for a major in Sociology is thirty (30) semester hours including Sociology 139 (Principles of Sociology), Sociology 310 (Development of Sociological Thought), Sociology 300 (Sociological Theory), Sociology 489 (Seminar in Social Research Analysis), and Sociology 491 (Sociological Research Methods). In addition students may select at least fifteen (15) hours of Sociology from the courses listed.

Major in General Social Science

The major in General Social Science is forty-eight (48) semester hours with fifteen (15) semester hours in History, twelve (12) hours in Political Science, nine (9) hours in Economics including Economic History of the United States, six (6) hours in Geography and six (6) hours in Sociology. A minor is not offered in General Social Science.

Major in Social Work

The Division of Social Sciences, in addition to departmental majors, also offers an interdepartmental major in Social Work. Graduates of this program are prepared for admission to professional schools of social work or for positions in public agencies of social welfare. The minimum requirements for a major in Social Work is forty-eight (48) semester hours including interdivisional courses in Biology, Economics, Health, and with a concentration of courses in Psychology and Sociology. The program is administered by the Department of Social Science and the course of study is subject to the approval of the Head of the Department.

Students interested in this program should consult Mr. Herbert Whitmer, 208 Harrison Hall.

Major in Business Administration (Management and Marketing)

The major in Business Administration Management and the major in Business Administration Marketing require the following core program: Business 100 (Introduction to Business), Business Administration 243

(Managerial Accounting), Economics 230-235 (Principles of Economics), Business Administration 280 (Principles of Management), Business 330 (Business Communications), Business 339 (Data Processing for Management), Business Administration 425 (Corporation Finance), Economics 488 (Money and Banking), and Business Administration 495 (Business Law).

Management

The students who concentrate in the field of Management will be required to complete the following courses: Business Administration 390 (Business Policy), Economics 314 (Economics of Labor), Geography 345 (Economics Geography), Business Administration 487 (Marketing) and Business Administration 489 (Personnel Administration).

Additional elective requirements for students concentrating in management includes 18 semester hours selected from the following: Business 480 (Production Management), Business 320 (Office Management), Business Administration 377 (Income Tax Accounting), Business Administration 496 (Business Law), Business Administration 510 (Management Seminar), Economics 330-335 (Intermediate Economics), Economics 477 (Comparative Economic System), Economics 479 (Principles of Investment), Economics 324 (Government and Industry), Economics 378 (Economic History of the United States).

Marketing

Students who concentrate in the field of Marketing will be required to complete the following courses: Business Administration 382 (Marketing Research), Business Administration 385 (Salesmanship), Business Administration 400 (Advertising), Business Administration 487 (Marketing), and Business Administration 490 (Marketing Management).

Additional elective requirements for students concentrating in Marketing includes 18 semester hours selected from the following: Business Administration 390 (Business Policy), Business Administration 420 (Sales Management), Business Administration 440 (Retail Store Management), Business Administration 496 (Business Law), Business Administration 377 (Income Tax Accounting), Business Administration 500 (Marketing Seminar), Economics 330-335 (Intermediate Economics), Economics 324 (Government and Industry), Economics 479 (Principles of Investment), Economics 487 (Economic History of the United States) and Geography 345 (Economic Geography).

Accounting

A major in accounting is offered. Students majoring in this field should complete the following courses: Business 100 (Introduction to Business), Business Administration 241-242 (Elementary Accounting), Business 270 (Business Machines), Business Administration 280 (Principles of Management), Business Administration 343-344 (Intermediate Accounting),

Business 330 (Business Communications), Business 340 (Data Processing for Business), Business 350 (Problems in Data Processing), Business Administration 375 (Cost Accounting), Business Administration 377 (Income Tax Accounting), Business Administration 410 (Auditing), Business Administration 445-446 (Advanced Accounting), and Business Administration 495-496 (Business Law). Also students should take Economics 230-235 (Principles of Economics) and six hours from electives in accounting and economics including: Business Administration 415 (Automated Accounting), Business Administration 425 (Corporation Finance), Business 450 (Computers in Business), Business Administration 489 (Personnel Administration), and Economics 488 (Money and Banking).

Minors

A student may minor in any of the following subjects: Economics, Geography, Political Science or Sociology. Eighteen (18) semester hours are required for a minor. These requirements meet the State Board of Education Certificate Requirements for teaching a specific subject.

Pre-Law Program

Madison College offers a program of pre-law counseling to students who desire to enter law school upon completion of undergraduate study. The pre-law faculty adviser are Mr. John A. Paul and Mr. Paul C. Cline.

No single major is recommended for pre-law study. The student in selecting his major should consider the type of legal practice he desires to engage in eventually. He should follow suggestions for pre-law study contained in the catalog of the school of law he wishes to enter and consult a pre-law faculty advisor as to an appropriate pre-law program.

Certain courses and areas of study are of value as preparation for legal study. These include courses in communication, including composition, language, and speech, which enable one to express himself well; in the liberal arts, including work in the humanities and social studies, which help one appreciate and perform effectively in his culture and society; in logic, mathematics, and the natural sciences, which develop skills of fact discrimination, analysis, and synthesis; and in accounting.

Four-Year Program for a Major in Economics

FRESHMAN YEAR

Credits per Semester: 1st 2nd

Eco. 230-235. Principles of Economics.....	3	3
Eng. 101-102. Reading and Composition.....	3	3
Math. 125-126. Introduction to College Mathematics.....	3	3
Basic Studies Requirement in Biological Science	4	0
Basic Studies Requirement in Physical Education	1	1
Basic Studies Requirement in a Physical Science	0	4
Electives	3	3
	<hr/>	<hr/>
	17	17

SOPHOMORE YEAR

Art 200. Art in General Culture.....	3	0
Eco. 314. Economics of Labor.....	3	0
Eco. 324. Government and Industry.....	0	2
Eng. 233-234. Introduction to Literature.....	3	3
Hist. 233-234. United States History.....	3	3
Hth. 200. Personal and Community Health.....	2	0
Mus. 200. Music in General Culture.....	0	3
Psy. 231-232. General Psychology	3	3
Spch. 200. Oral Communication	0	2
	<hr/>	<hr/>
	17	16

JUNIOR YEAR

Eco. 330-335. Intermediate Economic Theory.....	3	3
Eco. 478. Economic History of the United States.....	3	0
Basic Studies Requirement in Physical Education.....	1	1
Electives in Economics or Business Administration.....	3	3
Electives in Social Science	3	3
Electives	3	5
	<hr/>	<hr/>
	16	15

SENIOR YEAR

Eco. 480. Senior Seminar in Economics.....	3	0
Electives in Economics or Business Administration.....	6	9
Electives	6	6
	<hr/>	<hr/>
	15	15

Four-Year Program for a Major in Political Science

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Eng. 101-102. Reading and Composition.....	3	3	
Hist. 233-234. United States History.....	3	3	
Basic Studies Requirement in Mathematics	3	3	
Basic Studies Requirement in Biological Science	4	0	
Basic Studies Requirement in Physical Education	1	1	
Electives in Social Science.....	3	3	
Electives	0	2	
		<hr/>	<hr/>
		17	15

SOPHOMORE YEAR

Art 200. Art in General Culture.....	3	0	
Eng. 233-234. Introduction to Literature.....	3	3	
Mus. 200. Music in General Culture.....	0	3	
Pol. S. 225. United States Government.....	3	0	
Pol. S. 250. International Politics	0	3	
Psy. 233-234. Human Growth and Development.....	3	3	
Basic Studies Requirement in Physical Education	1	1	
Basic Studies Requirement in a Physical Science	0	4	
Electives	2	0	
		<hr/>	<hr/>
		15	17

JUNIOR YEAR

Hth. 200. Personal and Community Health.....	2	0	
Spch. 200. Oral Communication	0	2	
Electives	14	14	
		<hr/>	<hr/>
		16	16

SENIOR YEAR

Pol. S. 485. Senior Seminar	3	0	
Electives	13	16	
		<hr/>	<hr/>
		16	16

Four-Year Program for a Major in Sociology

FRESHMAN YEAR

Credits per Semester: 1st 2nd

Eng. 101-102. Reading and Composition.....	3	3
Math. 107-108. Fundamentals of Mathematics (or Math. 125-126. Introduction to College Math.).....	3	3
Soc. 139. Principles of Sociology.....	3	0
Elective in Sociology (200 level).....	0	3
Basic Studies Requirement in Biological Science	4	0
Basic Studies Requirement in Physical Education	1	1
Basic Studies Requirement in a Physical Science	0	4
Electives	3	3
	<hr/> 17	<hr/> 17

SOPHOMORE YEAR

Art 200. Art in General Culture.....	3	0
Eng. 233-234. Introduction to Literature.....	3	3
Hist. 233-234. United States History.....	3	3
Hth. 200. Personal and Community Health.....	2	0
Mus. 200. Music in General Culture.....	0	3
Spch. 200. Oral Communication	0	2
Electives in Sociology	3	3
Basic Studies Requirement in Physical Education.....	1	1
Electives	2	2
	<hr/> 17	<hr/> 17

JUNIOR YEAR

Psy. 231-232. General Psychology	3	3
Soc. 310. The Development of Sociological Thought.....	3	0
Soc. 300. Contemporary Sociological Theory.....	0	3
Elective in Sociology	3	0
Elective in Social Science	0	3
Electives	6	6
	<hr/> 15	<hr/> 15

SENIOR YEAR

Soc. 489. Seminar in Social Research Analysis.....	3	0
Soc. 491. Sociological Research Methods.....	0	3
Elective in Sociology.....	3	0
Electives	9	12
	<hr/> 15	<hr/> 15

Four-Year Program for a Major in General Social Science

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Eng. 101-102. Reading and Composition.....	3	3	3
Math. 107-108. Fundamentals of Mathematics.....	3	3	3
Pol. S. 110. Introduction to Political Science.....	3	0	3
Soc. 139. Principles of Sociology.....	0	3	3
Basic Studies Requirement in Biological Science	4	0	0
Basic Studies Requirement in Physical Education	1	1	1
Basic Studies Requirement in a Physical Science	0	4	4
Electives	3	3	3
	—	—	—
	17	17	17

SOPHOMORE YEAR

Art 200. Art in General Culture.....	3	0	0
Eco. 230-235. Principles of Economics.....	3	3	3
Eng. 233-234. Introduction to Literature.....	3	3	3
Geo. 120. Introduction to Geography.....	0	3	3
Hist. 233-234. United States History.....	3	3	3
Hth. 200. Personal and Community Health.....	0	2	2
Spch. 200. Oral Communication	2	0	0
Basic Studies Requirement in Physical Education.....	1	1	1
	—	—	—
	15	15	15

JUNIOR YEAR

Hist. 255-256. History of Civilization.....	3	3	3
Psy. 233-234. Human Growth and Development.....	3	3	3
Soc. 250. Social Problems	0	3	3
Mus. 200. Music in General Culture.....	3	0	0
Electives in Geography and Political Science.....	3	3	3
Electives	5	5	5
	—	—	—
	17	17	17

SENIOR YEAR

Ed. 360. Foundations of Curriculum.....	3	0	0
Ed. 370. Methods and Materials in Teaching in Secondary School	0	3	3
Eco. 478. Economic History of the United States	3	0	0
Ed. 470. History and Philosophy of Educational Thought..	3	0	0
Ed. 480. Directed Teaching	0	6	6
Electives in Social Science.....	6	3	3
Electives	0	3	3
	—	—	—
	15	15	15

Four-Year Program for a Major in Social Work

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	3	0	
Bio. 110-120. General Biology; General Zoology.....	4	4	
Eng. 101-102. Reading and Composition.....	3	3	
Mus. 200. Music in General Culture.....	0	3	
Pol. Sci. 226. State and Local Government.....	0	3	
Soc. 139. Principles of Sociology	3	0	
Soc. 250. Social Problems	0	3	
Spch. 200. Oral Communication	2	0	
Basic Studies Requirement in Physical Education.....	1	1	
	<hr/>	<hr/>	
		16	17

SOPHOMORE YEAR

Eng. 233-234. Introduction to Literature.....	3	3	
Hth. 200. Personal and Community Health.....	0	2	
Math. 107-108. Fundamentals of Mathematics.....	3	3	
Psy. 233-234. Human Growth and Development.....	3	3	
Soc. 387. Social Welfare	3	0	
Soc. 425. Crime in America.....	0	2	
Soc. 360. Modern Social Movements.....	0	3	
Basic Studies Requirement in Physical Education.....	1	1	
Basic Studies in a Physical Science.....	4	0	
	<hr/>	<hr/>	
		17	17

JUNIOR YEAR

Eco. 220. Survey of Economics.....	3	0	
Hist. 233-234. United States History.....	3	3	
Phil. 240. Introduction to Philosophy.....	0	3	
Psy. 358. Abnormal Psychology	3	0	
Soc. 310. Development of Sociological Thought.....	3	0	
Soc. 467. Cultural Anthropology	0	3	
Soc. 468. Community Organization	2	0	
Soc. 487. Social Work Techniques	2	0	
Soc. Work 480. Field Placement	0	3	
Electives	0	3	
	<hr/>	<hr/>	
		16	15

SENIOR YEAR

Psy. 488. Mental Tests and Measurements.....	3	0	
Soc. 435. Race and Minority Relations.....	0	2	
Soc. 470. Urban Sociology	0	3	
Soc. 491. Sociological Research Methods.....	3	0	
Soc. 427. Juvenile Delinquency	0	2	
Electives in Social Science.....	7	0	
Electives	2	8	
	<hr/>	<hr/>	
		15	15

Four-Year Program for a Major in Business Administration (Management)

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bus. Adm. 243. Managerial Accounting	3	0	
Bus. Ed. 100. Introduction to Business.....	3	0	
Eng. 101-102. Reading and Composition.....	3	3	
Hist. 233-234. United States History.....	3	3	
Math. 107-108. Fundamentals of Mathematics.....	3	3	
<i>or</i>	3	3	
Math. 125-126. Introduction to College Mathematics.....	0	3	
Mus. 200. Music in General Culture.....	1	1	
Basic Studies Requirement in Physical Education.....	0	3	
Electives	16	16	

SOPHOMORE YEAR

Art 200. Art in General Culture.....	0	3	
Bus. Adm. 280. Principles of Management.....	3	0	
Eco. 230-235. Principles of Economics.....	3	3	
Eng. 233-234. Introduction to Literature.....	3	3	
Spch. 200. Oral Communication	2	0	
Basic Studies Requirement in Physical Education	1	1	
Basic Studies Requirement in Biological Science	4	0	
Basic Studies Requirement in a Physical Science	0	4	
Electives	0	3	
	16	17	

JUNIOR YEAR

Bus. Adm. 390. Business Policy	0	3	
Bus. Adm. 425. Corporation Finance	0	3	
Bus. Adm. 489. Personnel Administration	3	0	
Bus. Ed. 330. Business Communications	3	0	
Bus. Ed. 339. Data Processing for Management.....	3	0	
Eco. 314. Economics of Labor.....	3	0	
Eco. 488. Money and Banking.....	0	3	
Hth. 200. Personal and Community Health.....	0	2	
Psy. 231-232. General Psychology	3	3	
<i>or</i>	3	3	
Psy. 215-216. Applied Psychology; Psychology in Business and Industry	0	2	
Electives	15	16	

SENIOR YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Bus. Adm. 487. Marketing	3	0
Bus. Adm. 495. Business Law	0	3
Geo. 345. Economic Geography	0	3
Electives in Management and Economics.....	9	9
Bus. Adm. 377, 490, 496, 510		
Bus. Ed. 320		
Eco. 324, 330-335, 345, 477, 479		
Electives	4	1
	<hr/> 16	<hr/> 16



Four-Year Program for a Major in Business Administration (Marketing)

FRESHMAN YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Bus. Adm. 243. Managerial Accounting	3	0
Bus. Ed. 100. Introduction to Business.....	3	0
Eng. 101-102. Reading and Composition.....	3	3
Hist. 233-234. United States History.....	3	3
Math. 107-108. Fundamentals of Mathematics.....		
or	3	3
Math. 125-126. Introduction to College Mathematics.....		
Mus. 200. Music in General Culture.....	0	3
Basic Studies Requirement in Physical Education.....	1	1
Electives	0	3
	<hr/> 16	<hr/> 16

SOPHOMORE YEAR

Art 200. Art in General Culture.....	3	0
Bus. Adm. 280. Principles of Management.....	3	0
Bus. Adm. 385. Salesmanship	0	3
Bus. Ed. 330. Business Communications	3	0
Eco. 230-235. Principles of Economics.....	3	3
Spch. 200. Oral Communication	0	2
Basic Studies Requirement in Biological Science	4	0
Basic Studies Requirement in Physical Education	1	1
Basic Studies Requirement in a Physical Science	0	4
Electives	0	3
	<hr/> 17	<hr/> 16

JUNIOR YEAR

Bus. Adm. 400. Advertising	0	3
Bus. Adm. 487. Marketing	3	0
Bus. Ed. 339. Data Processing for Management.....	3	0
Eco. 488. Money and Banking.....	0	3
Eng. 233-234. Introduction to Literature.....	3	3
Hth. 200. Personal and Community Health.....	0	2
Psy. 231-232. General Psychology		
or	3	3
Psy. 215-216. Applied Psychology; Psychology in Business. and Industry		
Electives	3	2
	<hr/> 15	<hr/> 16

SENIOR YEAR

	<i>Credits per Semester:</i>	
	<i>1st</i>	<i>2nd</i>
Bus. Adm. 382. Marketing Research	3	0
Bus. Adm. 425. Corporation Finance	0	3
Bus. Adm. 490. Marketing Management	3	0
Bus. Adm. 495. Business Law	0	3
Electives in Marketing and Geography and Economics (Bus. Adm. 377, 390, 420, 440, 496, 500; Eco. 324, 330-335, 478, 479; Geog. 345.....	9	9
Electives	2	0
	<hr/>	<hr/>
	17	15

Four-Year Program for a Major in Business Administration (Accounting)

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bus. Adm. 241-242. Elementary Accounting	3	3	
Bus. Ed. 100. Introduction to Business	3	0	
Eng. 101-102. Reading and Composition	3	3	
Hist. 233-234. United States History	3	3	
Math. 107-108. Fundamentals of Mathematics <i>or</i>	3	3	
Math. 125-126. Introduction to College Mathematics			
Mus. 200. Music in General Culture	0	3	
Basic Studies Requirement in Physical Education	1	1	
	16	16	

SOPHOMORE YEAR

Bus. Adm. 280. Principles of Management.....	0	3
Bus. Adm. 343-344. Intermediate Accounting	3	3
Art 200. Art in General Culture.....	3	0
Bus. Ed. 270. Business Machines	3	0
Eco. 230-235. Principles of Economics.....	3	3
Spch. 200. Oral Communication	0	2
Basic Studies Requirement in Physical Education	1	1
Basic Studies Requirement in Biological Science	4	0
Basic Studies Requirement in a Physical Science	0	4
	<hr/>	
	17	16

JUNIOR YEAR

Bus. Adm. 375.	Cost Accounting	0	3
Bus. Adm. 377.	Federal Income Tax Accounting.....	3	0
Bus. Ed. 330.	Business Communications	0	3
Bus. Ed. 340.	Data Processing for Business	3	0
Bus. Ed. 350.	Problems in Data Processing.....	0	3
Eng. 233-234.	Introduction to Literature.....	3	3
Hth. 200.	Personal and Community Health.....	2	0
Psy. 231-232.	General Psychology		
	<i>or</i>	3	3
Psy. 215-216.	Applied Psychology; Psychology in Business and Industry		
Electives		3	0
		17	15

SENIOR YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bus. Adm. 410. Auditing	0	3	
Bus. Adm. 445-446. Advanced Accounting	3	3	
Bus. Adm. 495-496. Business Law	3	3	
Electives in Accounting	3	3	
(Bus. Adm. 415, 425, 489, Bus. Ed. 450, Eco. 488)			
Electives	6	4	
	<hr/>	<hr/>	
	15	16	



Description of Courses

ECONOMICS 220. *Survey of Economics* (I or II; 3, 0), 3 credits.

A one semester course in Economics designed to meet the Virginia state requirements for the study of Economics by elementary education majors. Introduces the concepts and broad Economic principles of national income, fiscal policy and monetary policy of the United States economy. Reviews the economic objectives and impact of labor unions and of competition and monopoly; examines economics of full employment policies and international trade policies. Also reviews the broad economic principles of supply, demand and price and the economy of the firm.

ECONOMICS 230-235. *Principles of Economics* (I or II; 3, 0), 3 credits.

Together these courses provide a two semester six hour course of study as prerequisite for all other Economics courses except Economics 220 Survey of Economics. The courses provide a study of the principles of the functioning of the economy, the operation of the forces of supply, demand, economic distribution, public and private finance, national income, monetary policy, economic growth, and development, monopolistic competition, welfare economics and the economics of international trade.

ECONOMICS 314. *Economics of Labor* (I or II; 3, 0), 3 credits.

Economic analysis as applied to labor and unions. Attention will be given to wage determination, employment, the collective bargaining process, the labor movement, labor problems and labor-management relations.

ECONOMICS 324. *Government and Industry* (I or II; 2, 0), 2 credits.

A survey of government regulation of business in the United States and competing countries. Historical development of regulation, its present scope, its economic and philosophical basis.

ECONOMICS 330. *Intermediate Economic Theory—Price and Distribution* (I or II; 3, 0), 3 credits.

Intermediate analysis of the determination of price, distribution in a free enterprise economy.

ECONOMICS 335. *Intermediate Economic Theory—Income and Employment* (I or II; 3, 0), 3 credits.

Intermediate level analysis of Keynesian aggregates of supply and demand, study of consumption, saving and the multiplier, probing of the determinants of investment and the accelerator and appraisal of the government's role.

ECONOMICS 352. *Economic Ideas and Theories* (I or II; 3, 0), 3 credits.

This course is designed to acquaint the student with the major economic thought from early times to the present. The classical literature will be examined and the important ideas and theories will be analyzed and compared.

ECONOMICS 410. *Economics of Underdeveloped Areas* (I or II; 2, 0), 2 credits.

A study of economic development, past and present, with emphasis on the peculiar problems of economic growth in the developed and underdeveloped countries of the world.

ECONOMICS 477. *Comparative Economic Systems* (I or II; 3, 0), 3 credits.

An examination of the distinguishing characteristics, institutions, and functioning of major economic systems in the world today, with emphasis on the Soviet-type economy. A theoretical and historical introduction to the capitalist and socialist systems is followed by Great Britain, France, West Germany, Sweden, Yugoslavia, the Soviet Union, Communist China, India and Japan.

ECONOMICS 478. *Economic History of the United States* (I or II; 3, 0), 3 credits.

The changing pattern of agricultural and industrial production from colonial times; the rise of the modern corporation and the labor movement; the changing class structure; the development of business and banking institutions; and comparative standards of living. *Prerequisite: Hist. 233-234.*

ECONOMICS 479. *Principles of Investment* (I or II; 2, 0), 2 credits.

This course will offer the student some theories and practices of investment in a free enterprise economic system. An analysis of stocks, bonds, investment trusts, insurance, real estate, the operation of the stock market and other elements of investment.

ECONOMICS 480. *Senior Seminar in Economics* (I or II; 3, 0), 3 credits.

This course will deal with selected macroeconomic and microeconomic topics and issues as they relate to our national and international life. Research methodology will be surveyed and students will participate in study and give oral reports.

ECONOMICS 488. *Money and Banking* (I or II; 3, 0), 3 credits.

Deals with the evolution of money and the banking system, the structure and function of banking, the economics of banking, monetary and credit control, and monetary policy of the United States.

ECONOMICS 490. *Special Studies in Economics* (I or II), 3 credits.

Designed to give capable students in Economics an opportunity to do independent study under faculty supervision. (Admission only by recommendation of the instructor and permission of the Head of the Department).

ECONOMICS 501. *Economics Seminar: Industry-in-Action* (I or II), 3 credits.

This course is designed to highlight the American free enterprise system. Students will participate in a four-day field trip to examine how our eco-

conomic system operates at the production level. Lectures and demonstrations in the field will include visits to major representative industrial plants.

(This program is limited to fifteen students. On account of the field trip, a special non-refundable fee of thirty-five dollars (\$35.00) must be paid in advance.)

ECONOMICS 510. *Economics Seminar: Government and Business* (I or II), 3 credits.

This course is organized to place emphasis on government regulation of business in the United States and competing countries. Students will examine the historical development of regulation, consider its contemporary scope and discuss its philosophical and economic basis.

ECONOMICS 520. *Seminar in Labor Management Relations* (I or II), 3 credits.

In this seminar economic analysis is applied to the labor market with a consideration given to wage determination, prices and wages, employment and wages and other areas of relationships.

Students will examine the history of the labor movement, the methods, policies and theories of labor and compare these with policies, methods and theories of management.

ECONOMICS 522. *Economic Problems of Emerging Nations* (I or II; 3, 0), 3 credits.

A study of economic prospects in the emerging underdeveloped nations of the world. Using a case study approach, selected areas will be investigated in terms of their past with emphasis on economic growth and the prospects of improving standards of living for the masses in a technological age.

ECONOMICS 527. *Economic Problems of Modern Europe* (I or II; 3, 0), 3 credits.

A study of economic conditions and related political developments as a background for understanding the contemporary economic positions of major European countries.

ECONOMICS 530. *Seminar in Economic Problems* (I or II), 3 credits.

Students participating in this seminar will examine the various contemporary economic problems, including agriculture, automation, labor management, fiscal international trade and other problems.

Geography

GEOGRAPHY 120. *Introduction to Geography* (I or II; 3, 0), 3 credits.

A study of the geography of the major cultural regions of the world, giving attention to important individual countries within each cultural region. Pertinent background material on systematic physical and cultural geography is presented at appropriate places in the course.

GEOGRAPHY 335. *Geography of Africa* (I or II; 2, 0), 2 credits.

The physical environment, natural resources and human geographical patterns of Africa.

GEOGRAPHY 336. *Geography of Anglo-America* (I or II; 3, 0), 3 credits.

A geographic study of regional similarities and differences in United States and Canada. Special attention is given to changes taking place in urban and rural areas.

GEOGRAPHY 337. *Geography of Latin America* (I or II; 2, 0), 2 credits.

Analysis of physical and cultural environment, resource base, and economic development of Latin America. Attention focused on assets and liabilities and geographic foundations of political stability.

GEOGRAPHY 345. *Economic Geography* (I or II; 3, 0), 3 credits.

A systematic economic-geographic survey of primary, secondary, and tertiary production. Emphasis will be placed on mining, manufacturing, trade and agriculture.

GEOGRAPHY 346. *Geography of Europe* (I or II; 2, 0), 2 credits.

Geographic assessment of regional and national characteristics of the European nations.

GEOGRAPHY 347. *Geography of Asia* (I or II; 2, 0), 2 credits.

A critical analysis of physical and cultural environments of Asian nations and an evaluation of resources basic to economic and political development.

GEOGRAPHY 348. *Geography of U.S.S.R.* (I or II; 2, 0), 2 credits.

Deals with the natural environment of the Soviet Union and the regional distribution of its basic resources and economic activities.

GEOGRAPHY 410. *Urban Geography* (I or II; 3, 0), 3 credits.

Study of the city in its geographic setting giving perspective of modern urban problems origin and growth of cities and influence of location on city functions. Looks at the internal structure of the cities and the influence of the internal structure on its population groups.

GEOGRAPHY 415. *Climatology* (I or II; 3, 0), 3 credits.

The systematic study of the atmosphere with emphasis upon such phenomena as temperature, pressure, humidity, air masses and fronts; the occurrence of these phenomena on a global basis; and a detailed survey of the world-wide distribution of climate types.

GEOGRAPHY 475. *Introduction to Political Geography* (I or II; 2, 0), 2 credits.

The study of political regions as features of the earth's surface. Emphasis is placed on the nature of political control in a given region, on the

effect of control on nonpolitical aspects of the landscape, and on the pressures which exist for change in the type and area extent of this control.

GEOGRAPHY 490. *Special Studies in Geography* (I or II), 3 credits.

Designed to give capable students in Geography an opportunity to do independent study under faculty supervision. (Admission only by recommendation of the instructor and permission of the Head of the Department).

GEOGRAPHY 560. *Advanced Political Geography* (I or II; 3, 0), 3 credits.

A geographical study of contemporary international politics. Emphasis will be placed upon the major powers and on the shatterbelts within which the great power interests directly converge.

GEOGRAPHY 580. *Cultural Geography* (I or II; 3, 0), 3 credits.

A systematic as well as regional study of the world's cultures as based upon differences and similarities of the geographic environment on a global scale. Emphasis will be on the distribution of population and the problems which have arisen from this distribution.

GEOGRAPHY 590. *The Tropical World* (I or II; 3, 0), 3 credits.

This course is designed to highlight the areas of the world bordering on the Equator, including Central Africa, Southeastern Asia, Central and Northern Latin America and the Pacific. Students will study the physical environment in relationship with the cultural and social characteristics that together make these areas part of the present world political struggle.

Political Science

POLITICAL SCIENCE 110. *Introduction to Political Science* (I or II; 3, 0), 3 credits.

Introduction to concepts, organization, and terminology of government. Basic introductory material for the study of political science, including national, state, and local government, international relations, comparative government, constitutional law, and political theory.

POLITICAL SCIENCE 225. *United States Government* (I or II; 3, 0), 3 credits.

This is a basic course in the American political system, having for its fundamental purpose the development of responsible citizenship. Detailed coverage will be made of the origin, structure, functions, and current trends of national government. Some comparison is made of the structure and ideologies of American and foreign governments.

POLITICAL SCIENCE 226. *State and Local Government* (I or II; 3, 0), 3 credits.

This is a study of state and local government in the United States, with particular focus on Virginia. Emphasis is placed on an understanding of

the framework, functions, and problems of state and local (rural and urban) governments, and the responsibilities of the individual citizen.

POLITICAL SCIENCE 250. *International Politics* (I or II; 3, 0), 3 credits.

This course is a survey of international relations, including the theory of diplomacy, nationalism, propaganda, and other aspects of international politics, together with major world developments in the recent period; a partial introduction to such specialized subjects as international law and organization.

POLITICAL SCIENCE 310. *Modern Political Theory* (I or II; 3, 0), 3 credits.

Emphasis upon selected political thinkers from Machiavelli to the present with some attention given to prior theorists such as Plato and Aristotle. Among the concepts to be considered are the state, natural law, and sovereignty.

POLITICAL SCIENCE 325. *Constitutional Law* (I or II; 3, 0), 3 credits.

This course provides students with an opportunity to study the legal aspects of the Democracy system. The Constitution will be examined from the developmental frame-of-reference. Case studies will be used to portray important events and changes.

POLITICAL SCIENCE 330. *American Political Thought* (I or II; 2, 0), 2 credits.

A study of the development and significance of political ideas that have influenced American society and government.

POLITICAL SCIENCE 340. *Soviet Government and Politics* (I or II; 3, 0), 3 credits.

A study of the Soviet Union emphasizing the Communist Party, the governmental structure, and the nature of politics. Also included are aspects of historical background, Communist theory, Soviet foreign policy and other related areas.

POLITICAL SCIENCE 345. *Governments of Western Europe* (I or II; 3, 0), 3 credits.

Comparative analysis of countries of constitutions, political structures, and functions with major emphasis on the United Kingdom, France, Western Germany, Italy and Switzerland.

POLITICAL SCIENCE 350. *Governments of Latin America* (I or II; 3, 0), 3 credits.

A comparative study of constitutions, governmental institutions, political parties and dynamics, and political issues and trends in most of the states of Central and South America.

POLITICAL SCIENCE 355. *Major Governments of Asia* (I or II; 3, 0), 3 credits.

A study of government and politics in Communist China, India, and Japan, with emphasis on Communist China, including such relevant aspects as the historical foundation, the economic problems, and the foreign policy of the state.

POLITICAL SCIENCE 360. *Urban Politics* (I or II; 3, 0), 3 credits.

A study of the functions and role of local government in urban America with emphasis on the social, economic, and governmental problems of cities and metropolitan areas.

POLITICAL SCIENCE 369. *Political Dynamics* (I or II; 3, 0), 3 credits.

This course is a study of national political parties and elections. Attention is given to the origin and evolution of the major and important minor parties, the nomination and election process, the presidential campaign, the role and practical working of political parties, the influence of public opinion and pressure groups, and the responsibilities of the individual voter.

POLITICAL SCIENCE 370. *United States Foreign Policy* (I or II; 2, 0), 2 credits.

An investigation of the processes for making foreign policy, the underlying premises influencing specific policies, and the substance of American foreign policy.

POLITICAL SCIENCE 380. *The National Executive* (I or II; 2, 0), 2 credits.

A study of the present state of the law and the practice of the institution of the American Presidency focusing on the sources, bases and character of the power required by the President for effective executive action. Relationships of the Presidency to foreign affairs, the Congress, the public, the party structure, and the administrative establishment will also be considered.

POLITICAL SCIENCE 385. *The Legislative Process* (I or II; 2, 0), 2 credits.

Study of the legislative process will concentrate on the operation of Congress with regard to such matters as its rules and procedure; its relationships to the Presidency, to the bureaucracy, to pressure groups, and to the courts; and a discussion of its current problems.

POLITICAL SCIENCE 390. *The Judicial Process* (I or II; 2, 0), 2 credits.

A study of the judicial process will include an examination of judicial decision-making, the organization and jurisdiction of courts, a review of civil and criminal procedures, judicial review, selection and discipline of judges, and the courts' relationship to the executive and legislative branches.

POLITICAL SCIENCE 395. *International Law and Organization* (I or II; 3, 0), 3 credits.

An introduction to the principles of international law and its role in the modern world; a study of the major contemporary organizations, such

as NATO, the OAS, and the European Community, with emphasis on the United Nations.

POLITICAL SCIENCE 400. *Public Administration* (I or II; 3, 0), 3 credits.

This course is intended to give an introductory survey to the principles, function, and processes of public administration with specific emphasis on organization budgeting, personnel, the administrative process and public relations.

POLITICAL SCIENCE 482. *Contemporary World Problems* (I or II; 3, 0), 3 credits.

This course is an analytical study of world problems, those studied being determined by the exigencies of the moment. Some representative topics are international trade questions, arms control issues, and political conflicts in various parts of the world.

POLITICAL SCIENCE 485. *Senior Seminar* (I or II; 3, 0), 3 credits.

This course limited to senior political science majors is intended to familiarize the student with various methods and techniques commonly used in the discipline and to give the student an opportunity to carry out, under the supervision of the instructor, an original research project.

POLITICAL SCIENCE 490. *Special Studies in Political Science* (I or II), 3 credits.

Designed to give capable students in Political Science an opportunity to do independent study under faculty supervision. (Admission only by recommendation of the instructor and permission of the Head of the Department).

POLITICAL SCIENCE 529. *International Organization* (I or II; 3, 0), 3 credits.

A study of the principal international organizations, including the European Community, the North Atlantic Treaty Organization, and the Organization of American States, with emphasis on the United Nations and the problems of maintenance of international peace.

POLITICAL SCIENCE 535. *Contemporary China* (I or II; 3, 0), 3 credits.

This course is principally a study of mainland China in its political aspects. It includes the revolutionary background of the Chinese Communist Party; the structure and function of government; some aspects of the economy, of foreign relations and military strategy, and of current internal political developments.

POLITICAL SCIENCE 540. *Problems of American National Government* (I or II; 3, 0), 3 credits.

This course is designed as an intensive survey of national government in the U. S. with primary emphasis on the current problems facing the U. S. Government. Problems to be examined will include those involving the presidency, Congress and the Federal Court System.

POLITICAL SCIENCE 550. *Problems in State and Local Government* (I or II; 3, 0), 3 credits.

This course will focus attention on the major problems faced by local and state governments. The problem will include political leadership, operation of the courts, police power, fiscal problems, metropolitan areas and others.

Sociology

SOCIOLOGY 139. *Principles of Sociology* (I or II; 3, 0), 3 credits.

A study of the interrelationship of kinship, occupation, religion, education and social stratification in present-day United States.

SOCIOLOGY 250. *Social Problems* (I or II; 3, 0), 3 credits.

Designed to introduce the student to the nature of social organization and social disorganization. Emphasis is on problems relating to family behavior, juvenile delinquency, social stratification, social mobility, and mental health.

SOCIOLOGY 252. *Population Problems* (I or II; 2, 0), 2 credits.

This course will stress the rise of population since the Industrial Revolution and review the basic demographic principles and the various programs of control.

SOCIOLOGY 254. *Social Stratification* (I or II; 2, 0), 2 credits.

A study of the class, caste and power structure of the American society. The numerous stratification research studies will be analyzed and compared.

SOCIOLOGY 300. *Contemporary Sociological Theory* (I or II; 3, 0), 3 credits.

An introduction to current schools of sociological theory, including symbolic interactionism, cognitive theory, exchange theory, systems theory, structural-functional theory, and historical sociology.

SOCIOLOGY 310. *The Development of Sociological Thought* (I or II; 3, 0), 3 credits.

A study of major sociological theorists writing between 1800 and the late 1920's with special emphasis upon those aspects of their work which have shaped modern sociology.

SOCIOLOGY 312. *Social Pathology* (I or II; 2, 0), 2 credits.

This course will emphasize the various forms of withdrawal, such as suicide, alcoholism, drug addiction and similar contemporary problems.

SOCIOLOGY 360. *Modern Social Movements* (I or II; 3, 0), 3 credits.

This course is organized to introduce the student to some of the major social movements since 1800. The focus of attention will be on social and cultural change and will include such topics as urbanization, industrialization, the cooperative movement, the labor movement, and some special studies of unrest and change.

SOCIOLOGY 364. *Sociology of Religion* (I or II; 3, 0), 3 credits.

A study of the various religions and how they influence social organization, behavior and group norms.

SOCIOLOGY 387. *Social Welfare* (I or II; 3, 0), 3 credits.

The purpose of this course is to provide an understanding of the philosophy and practices of modern social welfare. It includes the study of social case work, public assistance programs, family and child welfare, probation and parole and other social functions.

SOCIOLOGY 400. *American Folklore* (I or II; 2, 0), 2 credits.

This course will introduce the major elements into which the heritage of the common folk can be divided. Included will be holidays, beliefs, customs, folk arts, magic, tales, legends, games and songs. Selected examples will be traced from their origin to the present. Emphasis will be placed on collecting in the oral tradition.

SOCIOLOGY 410. *Culture and Personality* (I or II; 3, 0), 3 credits.

A comparative study of how individuals and groups come to embody and respond to different cultural and social systems, with emphasis on personality processes in contemporary societies and social classes.

SOCIOLOGY 425. *Crime in America* (I or II; 2, 0), 2 credits.

This course will survey the recent reports pertaining to crime and delinquent behavior with an emphasis on organized crime, gambling, vice and racketeering. Case studies will be presented.

SOCIOLOGY 427. *Juvenile Delinquency* (I or II; 2, 0), 2 credits.

A study of youth gangs, deviation and youth culture standards as well as the treatment used. Recent research reports will be emphasized.

SOCIOLOGY 435. *Race and Minority Relations* (I or II; 2, 0), 2 credits.

This course is a detailed study of the background and development of the contemporary problems of minority groups in America. Primary emphasis will be placed on the Negro as a minority although nationality and religious minorities will also be included.

SOCIOLOGY 467. *Cultural Anthropology* (I or II; 3, 0), 3 credits.

The purpose of this course is to acquaint the student with man in the primitive world including such topics as prehistoric times, primitive tech-

nology and culture, and cultural and social evolution. Emphasis will be placed on the study of social change.

SOCIOLOGY 468. *Community Organization* (I or II; 2, 0), 2 credits.

Studies of rural and urban communities are used as a means of understanding social organization at the community level. Helpful for making effective use of human resources within the community.

SOCIOLOGY 470. *Urban Sociology* (I or II; 3, 0), 3 credits.

A study of the major research projects pertaining to metropolitan life with stress on the use and meaning of the U. S. Census Bureau, Block statistics and similar basic materials.

SOCIOLOGY 471. *Industrial Sociology* (I or II; 3, 0), 3 credits.

This course will stress the role of the individual in the work group including the demands, values and standards of modern industrial plants and the response to same by employees.

SOCIOLOGY 480. *Social Work Field Placement* (I or II; 3, 0), 3 credits.

This course will give students field experience in: public welfare, adult and juvenile probation and parole, and school social work. The emphasis will be on the services of these agencies to the individual and the community, and their relationship to state and national social service programs.

SOCIOLOGY 482. *Social Work Field Placement at DeJarnett Mental Hospital* (I or II; 3, 0), 3 credits.

The purpose of this course is to provide field experience at DeJarnett's Mental Hospital. Students will be under professional supervision in the hospital's four major services: social work and rehabilitation counseling; occupational therapy; group therapy; and behavioral modification.

SOCIOLOGY 487. *Social Work Techniques* (I or II; 2, 0), 2 credits.

This course will emphasize the techniques used in social work, such as case recording, case analysis, and various types of interviewing.

SOCIOLOGY 489. *Seminar in Social Research Analysis* (I or II; 3, 0), 3 credits.

This course provides the advanced student an opportunity to critically study contemporary research findings. Emphasis is placed on quantitative analysis including social statistics, types of sampling, and graphic presentation.

SOCIOLOGY 490. *Special Studies in Sociology* (I or II), 3 credits.

Designed to give capable students in Sociology and Social Work an opportunity to do independent study under supervision. (Admission only by recommendation of the instructor and permission of the Head of the Department.)

SOCIOLOGY 491. *Sociological Research Methods* (I or II; 3, 0), 3 credits.

A survey of the various research methods, including some quantitative sampling, questionnaire and several types of interview techniques.

SOCIOLOGY 530. *The Negro in America* (I or II; 3, 0), 3 credits.

A survey of the history of the Negro in American Society which will provide a background for the examination and analysis of the present role and status of this minority group.

SOCIOLOGY 576. *The Contemporary Family* (I or II; 3, 0), 3 credits.

The family is studied in its structural aspects. Primary emphasis is upon the husband-wife, parent-child, and in-law relationships. Family behavior is related to occupational structure, religious orientation, educational patterns, and social stratification.

SOCIOLOGY 580. *Comparative Family Systems* (I or II; 3, 0), 3 credits.

The structure and functions of typical families in several areas of the world will be compared and analyzed. Emphasis will be placed on the Russian, Chinese, and American Negro family. Selected primitive family systems will also be reviewed.

Business Administration

BUSINESS ADMINISTRATION 241-242. *Elementary Accounting* (I and II; 3, 0), 3 credits.

This course in elementary accounting principles and procedures is planned to meet the needs of all accounting majors and others who desire a background in this area. The interpretation of data and the understanding of interrelationships are emphasized. Accounts, procedures, and statements for the single proprietorship, partnership, and corporation are studied. Topics such as internal control procedures, special journals, controlling accounts, inventories, manufacturing, fixed assets, depreciation, and adjusting and closing techniques are included.

BUSINESS ADMINISTRATION 243. *Managerial Accounting* (I or II, 3, 0), 3 credits.

Emphasizes the uses of accounting as a basic tool of management. Includes the fundamental of income statement and balance sheet determination and evaluation, introduction to statement analysis, internal control and budgeting techniques.

BUSINESS ADMINISTRATION 280. *Principles of Management* (I or II; 3, 0), 3 credits.

Designed to provide principles in the areas of business management, decision processes, management functions, business resources and government.

BUSINESS ADMINISTRATION 343-344. *Intermediate Accounting* (I and II; 3, 0), 3 credits.

Topics included in the course are: Financial statements, the accounting process, cash and temporary investments, receivables, inventories, current liabilities, investment in stocks and bonds, funds and miscellaneous investments, plant and equipment, intangibles and special problems in corporation accounting. *Prerequisite: Business Administration 241-242 (or equivalent).*

BUSINESS ADMINISTRATION 375. *Cost Accounting* (I or II; 3, 0), 3 credits.

An introductory course in cost accounting. It is designed for students who plan careers in accounting or business management and for teachers. The course includes a study of the fundamentals of cost accounting, consideration of cost flow, cost elements, cost classification, cost accounting cycle, voucher system and factory ledger. *Prerequisite: Business Administration 241-242 (or equivalent).*

BUSINESS ADMINISTRATION 377. *Federal Income Tax Accounting* (I; 3, 0), 3 credits.

Devoted to a consideration of Federal income taxes. These topics, among others, will be studied: income, exclusions, gain or loss on sales, exchanges, and involuntary conversions, deductions, exemptions, and pay-as-you-go withholdings. An overview is given of social security estate, and the gift taxes levied by the Federal government.

BUSINESS ADMINISTRATION 382. *Marketing Research* (I or II; 3, 0), 3 credits.

A course dealing with the collection, interpretation, and presentation of marketing information to aid the shaping of marketing objectives, policies and decisions. Includes analytic techniques, methodology and sources of data.

BUSINESS ADMINISTRATION 385. *Salesmanship* (I or II; 3, 0), 3 credits.

A study of the several phases of salesmanship including personality development, preparation for selling, sales approach, demonstration selling, handling objections, closing sales, and the role of salesmanship in our economy.

BUSINESS ADMINISTRATION 390. *Business Policy* (I or II; 3, 0), 3 credits.

Deals with the field of policy making and administration at the various levels of management, including overall company policies and departmental policies. *Prerequisite: Business Administration 280 (or equivalent).*

BUSINESS ADMINISTRATION 400. *Advertising* (I or II; 3, 0), 3 credits.

A survey of all forms of advertising; economic aspects of advertising copy, layout, campaigns, media, and government control.

BUSINESS ADMINISTRATION 410. *Auditing* (I or II; 3, 0), 3 credits.

A course in studying of the work of the accountant in investigating, interpreting, and appraising accounting records. *Prerequisite: Business Administration 343-344.*

BUSINESS ADMINISTRATION 415. *Automated Accounting* (I or II; 3, 2), 3 credits.

A course designed for analyzing business systems and the conversion of record keeping to automation with emphasis on forms designing and basic of systems communications. *Prerequisite: Business 350.*

BUSINESS ADMINISTRATION 420. *Sales Management* (II; 3, 0), 3 credits.

A study of the sales organization of a manufacturing or wholesale business. Analysis of the work of a salesman, supervisor, branch manager, and staff assistant. *Prerequisite: Business Administration 385.*

BUSINESS ADMINISTRATION 425. *Corporation Finance* (II; 3, 0), 3 credits.

Forms of business organizations; corporate structure; financing through securities; sources and management of working capital; administration of income; expansion; combination; reorganization; receivership; and dissolution.

BUSINESS ADMINISTRATION 440. *Retail Store Management* (II, 3, 0), 3 credits.

A study of the operation and service activities as functions of store management. Areas of store location and layout, customer service, receiving, marking, and store protection are stressed. *Prerequisite: Business Administration 385.*

BUSINESS ADMINISTRATION 445-446. *Advanced Accounting* (I and II; 3, 0), 3 credits.

Designed to meet the requirements of those persons who would gain an appreciation of the application of fundamental theory to a number of important fields and activities in business. Among the subjects studied are: accounting for partnerships and joint ventures; income measurement in installation sales and consignments; accounting for some office and branch-units; parent and subsidiary relationships; preparation of consolidated balance sheet, income statement, and surplus statement; and actuarial science and the application of actuarial principles to business and accounting problems. *Prerequisite: Business Administration 343-344 (or equivalent).*

BUSINESS ADMINISTRATION 487. *Marketing* (I or II; 3, 0), 3 credits.

Deals with the fundamental of the marketing process; functions, institutions, channels of distribution of goods and services from producer to consumer.

BUSINESS ADMINISTRATION 489. *Personnel Administration* (I or II; 3, 0), 3 credits.

A study of employer-employee relationships in business, and industry including personnel policies and methods, selection, placement, training, and promotion of employees, and recent trends in employment practices.

BUSINESS ADMINISTRATION 490. *Marketing Management* (II; 3, 0), 3 credits.

An application of the theories and principles of management and marketing to the solution of practical problems of marketing tasks are emphasized. *Prerequisite: Business Administration 487.*

BUSINESS ADMINISTRATION 495. *Business Law* (I; 3, 0), 3 credits.

A study of the fundamental principles of law of contracts, sale of goods and commercial paper based on the Uniform Commercial Code. Emphasis is given to the part these play in both personal and business life.

BUSINESS ADMINISTRATION 496. *Business Law* (II; 3, 0), 3 credits.

A continuation of Business 495, with emphasis on the law of partnerships, corporations, insurance, and government regulations of business.

BUSINESS ADMINISTRATION 500. *Marketing Seminar* (I or II; 3, 0), 3 credits.

Study and analysis in the major decision areas of marketing individual research in the field with emphasis on modern trends and concepts in marketing. *Prerequisite: Business Administration 487 (or equivalent).*

BUSINESS ADMINISTRATION 510. *Management Seminar* (I or II; 3, 0), 3 credits.

Study and analysis in the major areas of management, the functions of management, and the setting of goals and objectives. Brings together all the factors of management in a comprehensive course. *Prerequisite: Business Administration 280 (or equivalent).*

BUSINESS ADMINISTRATION 530. *Seminar in American Business.* 3 credits.

A comprehensive review of current books, magazines, and materials in the areas of Marketing, Banking, Taxation, Selling, Exchanges, Economic Conditions, and other areas essential to improved business understandings.

DIVISION of Teacher Education

DR. CHARLES G. CALDWELL, *Director*

Departmental Programs

Education

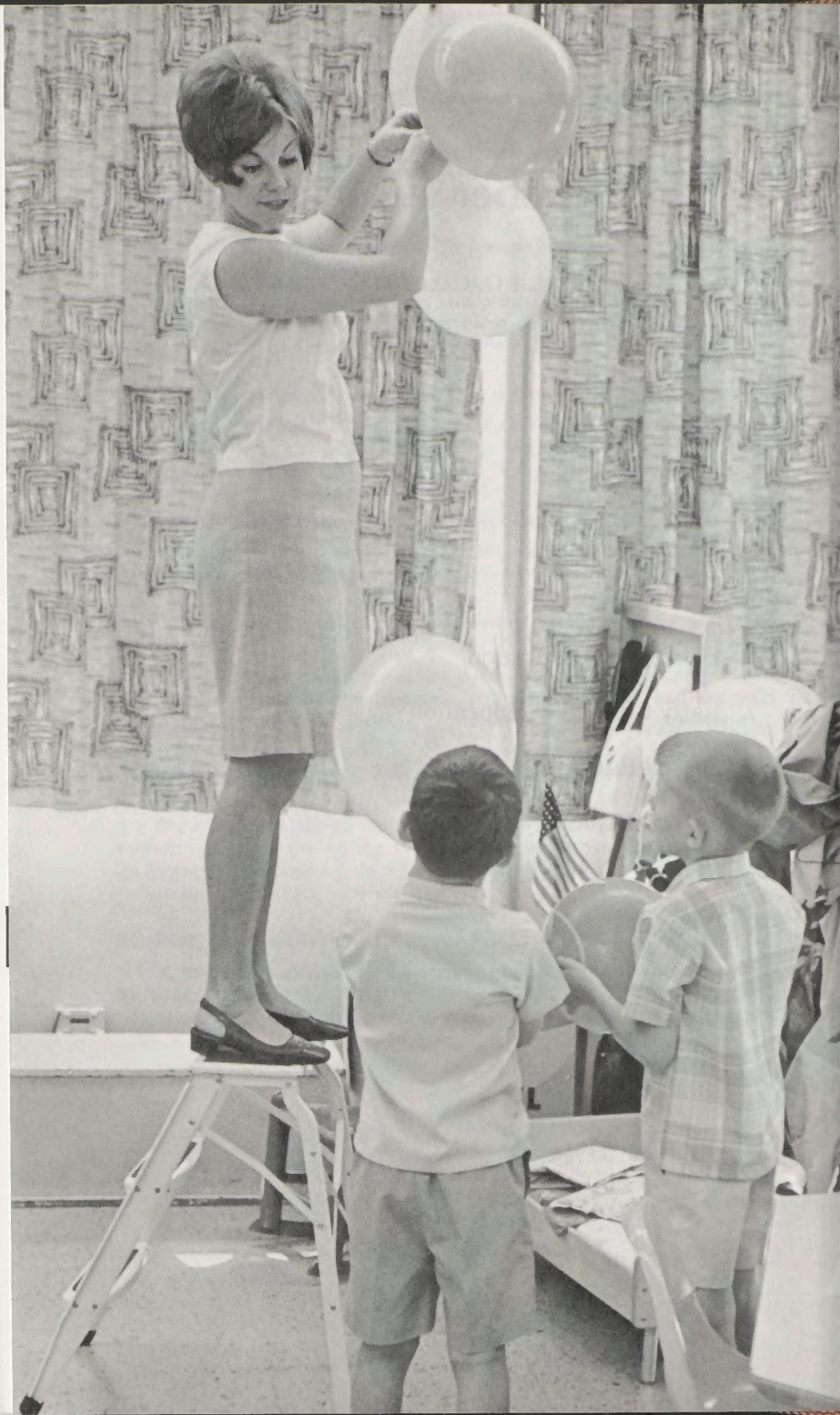
Elementary Education

Early Childhood Education

Special Education

Speech Pathology

Psychology



DEPARTMENT

of Education

DR. CHARLES W. BLAIR, *Head of the Department*

Professors CALDWELL, DARRIN, J. FOX, LEHMAN, and R. POINDEXTER

Associate Professors BLAIR, C. NEATROUR, REUBUSH, RUSH, and SHAFER

Assistant Professors CHAFEY, M. DICKERSON, GARLICK, GOFF, HAMMES, HEEB, HOBSON, HOPKINS, R. HORN, JOYCE, KASLOW, KNIGHT, LANDES, O'HARE, REEKE, and SEIDEL

The Department of Education offers programs designed to provide the student with a strong background in professional education and to qualify the student for the Collegiate Professional Teaching Certificate in the State of Virginia. Four major programs and one minor program are offered by the Education Department.

MAJOR PROGRAMS

The Education Department offers major programs in Elementary Education, Early Childhood Education, Special Education, and Speech Pathology.

Four-Year Program for a Major in Elementary Education

The student who majors in Elementary Education may be recommended for the Collegiate Professional Certificate with endorsement for either grades one through seven or grades four through seven.

Students who major in Elementary Education should concentrate in an area outside the field of education. The purpose of this concentration is to give the student some depth in a field of study other than education. The concentration will be 24 semester hours including the required courses in that area or department. In those areas or departments in which there is no required work, the concentration is made up of 18 semester hours. The concentration is not designed to lead to endorsement for teaching in that subject area at the secondary level.

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	3	0	
Bio. 110. General Biology	0	4	
Eng. 101-102. Reading and Composition.....	3	3	
Hist. 233-234. United States History.....	3	3	
Math. 107-108. Fundamentals of Mathematics.....	3	3	
Mus. 200. Music in General Culture.....	0	3	
Basic Studies Requirement in Physical Education	1	1	
Basic Studies Requirement in a Physical Science	4	0	
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		17	17

SOPHOMORE YEAR

Eco. 220. Survey of Economics.....	3	0	
Eng. 233-234. Introduction to Literature.....	3	3	
Geog. 120. Introduction to Geography.....	3	0	
Hth. 200. Personal and Community Health.....	0	2	
L. S. 240. Children's Literature	0	3	
Psy. 233-234. Human Growth and Development.....	3	3	
Spch. 200. Oral Communication	2	0	
Basic Studies Requirement in Physical Education.....	1	1	
Elective in History and/or Social Science.....	0	3	
Electives	1	1	
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		16	16

JUNIOR YEAR

Art 310. Art Activities in the Elementary School.....	3	0	
Ed. 359. Reading in the Elementary School.....	0	3	
Ed. 360. Foundations of Curriculum.....	3	0	
Ed. 369. Methods and Materials in Teaching in the Elementary Grades	0	3	
Math. 207. Basic Concepts of Algebra.....	2	0	
Math. 208. Intuitive Foundations of Geometry.....	0	2	
Mus. Ed. 375. Music for Children.....	0	3	
P. E. 370. Physical Education for Children.....	2	0	
Sci. 310. Science in the Elementary School.....	4	0	
Elective in English	0	3	
Electives	2	2	
		<hr/>	<hr/>
		16	16

SENIOR YEAR

Ed. 470. History and Philosophy of Educational Thought..	3	0	
Ed. 480. Directed Teaching	0	6	
Elective in Social Science.....	3	0	
Electives	9	9	
		<hr/>	<hr/>
		15	15

Four-Year Program for a Major in Early Childhood Education

Students who complete this major program may be recommended for the Collegiate Professional Certificate with endorsement to teach in kindergarten through grade three.

FRESHMAN YEAR

Credits per Semester: 1st 2nd

Art 200. Art in General Culture.....	3	0
Bio. 110. General Biology	4	0
Eng. 101-102. Reading and Composition.....	3	3
Hist. 233-234. United States History.....	3	3
Math. 107-108. Fundamentals of Mathematics.....	3	3
Mus. 200. Music in General Culture.....	0	3
Basic Studies Requirement in Physical Education	1	1
Basic Studies Requirement in a Physical Science	0	4
	<hr/> 17	<hr/> 17

SOPHOMORE YEAR

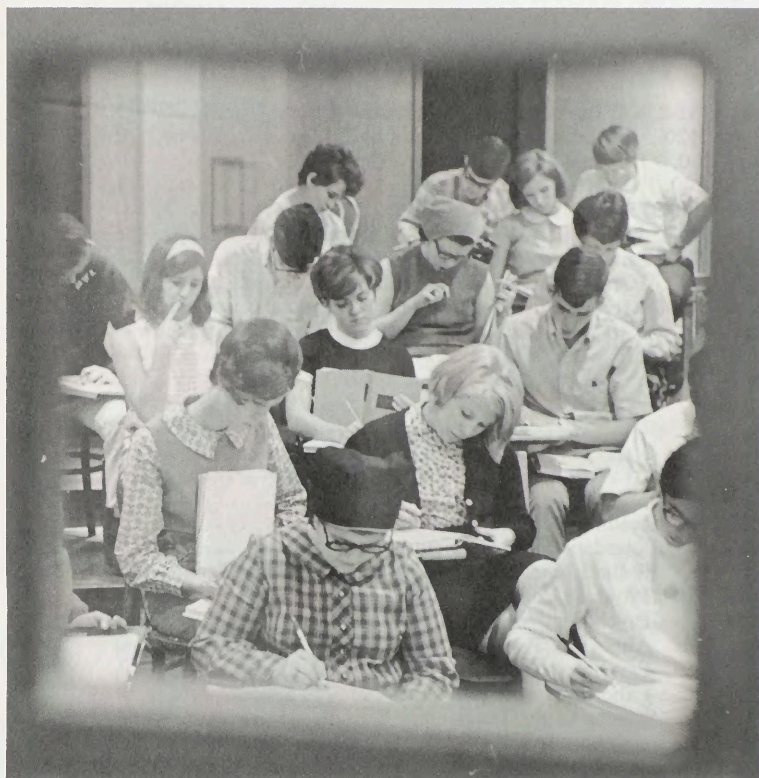
Eng. 233-234. Introduction to Literature.....	3	3
Geog. 120. Introduction to Geography.....	0	3
Hth. 200. Personal and Community Health.....	0	2
L. S. 240. Children's Literature	3	0
Mus. Ed. 375. Music for Children.....	0	3
Psy. 233-234. Human Growth and Development.....	3	3
Soc. 139. Principles of Sociology	3	0
Spch. 200. Oral Communication	2	0
Basic Studies Requirement in Physical Education.....	1	1
Electives	0	1
	<hr/> 15	<hr/> 16

JUNIOR YEAR

Art 310. Art Activities in the Elementary School.....	0	3
Eco. 220. Survey of Economics.....	0	3
Ed. 359. Reading in the Elementary School.....	3	0
Ed. 360. Foundations of Curriculum	3	0
Ed. 369. Methods and Materials in the Elementary Grades.	0	3
P.E. 370. Physical Education for Children.....	0	2
Psy. 357. Psychology of Personality.....	3	0
Psy. 358. Abnormal Psychology	0	3
Psy. 369. Psychology of Early Childhood.....	3	0
Psy. 480. Laboratory in Child Study.....	0	3
Sci. 310. Science in the Elementary School.....	4	0
	<hr/> 16	<hr/> 17

SENIOR YEAR

	<i>Credits per Semester:</i>		<i>1st</i>	<i>2nd</i>
Ed. 470. History and Philosophy of Educational Thought..	3	0		
Ed. 480. Directed Teaching	0	6		
Ed. 509. Exploring the Early Childhood Education Curriculum in Depth.....	0	3		
Ed. 510. Applied Arts in Early Childhood Education.....	3	0		
Elective in English	3	0		
Elective in Social Science	0	3		
Electives	6	3		
			15	15



Four-Year Program for a Major in Special Education

Students who complete the major program in Special Education may be recommended for the Collegiate Professional Certificate with endorsement to teach classes for the mentally retarded and to teach in the elementary grades.

FRESHMAN YEAR

<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	3	0
Bio. 110. General Biology	4	0
Eng. 101-102. Reading and Composition.....	3	3
Hist. 233-234. United States History.....	3	3
Math. 107-108. Fundamentals of Mathematics.....	3	3
Mus. 200. Music in General Culture.....	0	3
Basic Studies Requirement in Physical Education	1	1
Basic Studies Requirement in a Physical Science	0	4
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SOPHOMORE YEAR

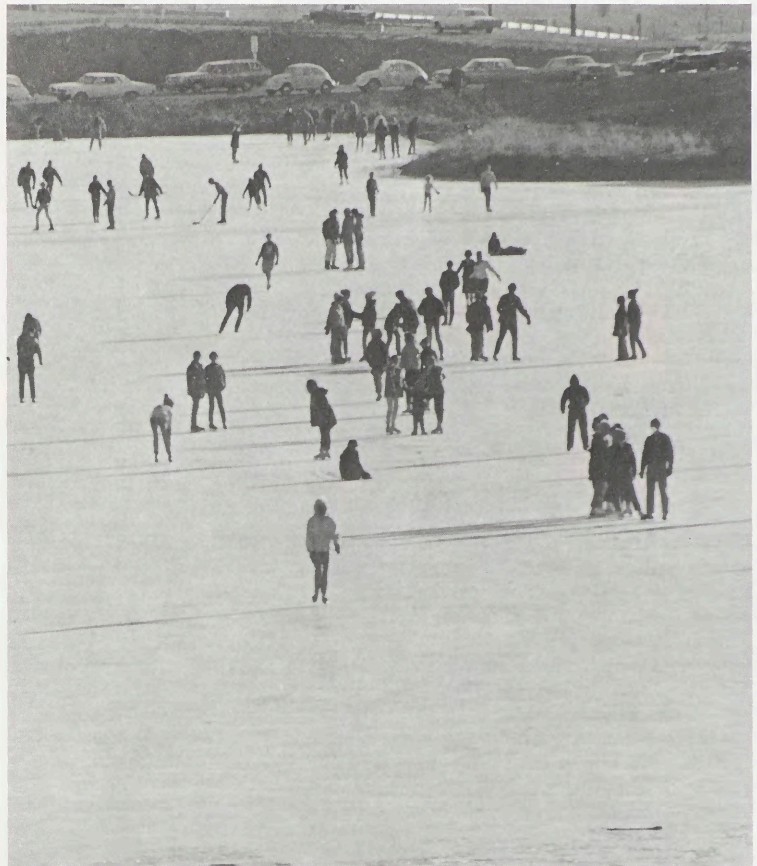
Eco. 220. Survey of Economics.....	0	3
Eng. 233-234. Introduction to Literature.....	3	3
Geog. 120. Introduction to Geography.....	3	0
Hth. 200. Personal and Community Health.....	0	2
L. S. 240. Children's Literature	3	0
Psy. 233-234. Human Growth and Development.....	3	3
Psy. 240. Survey of Exceptional Children.....	0	3
Spch. 200. Oral Communication	0	2
Basic Studies Requirement in Physical Education.....	1	1
Elective in Social Science.....	3	0
	<hr/> 16	<hr/> 17

JUNIOR YEAR

Art 314. Arts and Crafts for the Exceptional Child.....	3	0
Ed. 359. Reading in the Elementary School.....	0	3
Ed. 360. Foundations of Curriculum.....	3	0
Ed. 369. Methods and Materials in Teaching in the Elementary Grades	0	3
Ed. 410. Characteristics of Mentally Retarded Children...	0	3
Mus. Ed. 375. Music for Children.....	3	0
P. E. 370. Physical Education for Children.....	0	2
Psy. 476. Psychology of Exceptional Children.....	3	0
Sci. 310. Science in the Elementary School.....	4	0
Elective in English.....	0	3
Elective in Social Science.....	0	3
	<hr/> 16	<hr/> 17

SENIOR YEAR

Ed. 390. Curriculum and Methods for Teaching Children with Learning Disabilities.....	3	0
Ed. 400. Speech Correction	3	0
Ed. 470. History and Philosophy of Educational Thought..	0	3
Ed. 480. Directed Teaching	0	8
Ed. 514. Seminar in Special Education.....	0	3
Ed. 515. Practicum in Special Education.....	3	0
Psy. 488. Mental Tests and Measurements.....	3	0
Electives	2	0
	<hr/> 14	<hr/> 14



Four-Year Program for a Major in Speech Pathology

Students who elect this major may be recommended for the Collegiate Professional Certificate with endorsements to teach children with speech disorders and to teach in the elementary grades.

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Art 200. Art in General Culture.....	3	0	
Bio. 110. General Biology	0	4	
Eng. 101-102. Reading and Composition.....	3	3	
Hist. 233-234. United States History.....	3	3	
Math. 107-108. Fundamentals of Mathematics.....	3	3	
Mus. 200. Music in General Culture.....	0	3	
Basic Studies Requirement in Physical Education	1	1	
Basic Studies Requirement in a Physical Science	4	0	
		<hr/>	<hr/>
		17	17

SOPHOMORE YEAR

Eco. 220. Survey of Economics.....	0	3	
Ed. 400. Speech Correction	3	0	
Ed. 414. Advanced Speech Correction.....	0	3	
Eng. 233-234. Introduction to Literature.....	3	3	
Geog. 120. Introduction to Geography.....	3	0	
Hth. 200. Personal and Community Health.....	2	0	
L. S. 240. Children's Literature	0	3	
Psy. 233-234. Human Growth and Development.....	3	3	
Spch. 200. Oral Communication	2	0	
Basic Studies Requirement in Physical Education.....	1	1	
		<hr/>	<hr/>
		17	16

JUNIOR YEAR

Art 310. Art Activities in the Elementary School.....	0	3	
Ed. 215. Clinical Phonetics (or Sp. 319).....	3	0	
Ed. 320. Anatomy and Physiology of the Ear and Voice Mechanism	3	0	
Ed. 330. Audiology	3	0	
Ed. 359. Reading in the Elementary School.....	0	3	
Ed. 360. Foundations of Curriculum.....	3	0	
Ed. 369. Methods and Materials in Teaching in the Elementary Grades	0	3	
Ed. 415. Seminar in Organic Speech Disorders.....	3	0	
Ed. 416. Seminar in Psychologically Related Speech Disorders	0	3	
Psy. 476. Psychology of Exceptional Children.....	3	0	
Sci. 310. Science in the Elementary School.....	0	4	
		<hr/>	<hr/>
		18	16

SENIOR YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Ed. 417. Seminar in Aural Rehabilitation.....	3	0	
Ed. 465. Speech Correction Practice.....	3	0	
Ed. 470. History and Philosophy of Educational Thought..	3	0	
Ed. 480. Directed Teaching	8	0	
Mus. Ed. 375. Music for Children.....	0	3	
P. E. 370. Physical Education for Children.....	0	2	
Psy. 488. Mental Tests and Measurements.....	0	3	
Elective in English	0	3	
Elective in Social Science	0	6	
		<hr/>	<hr/>
		17	17



Program in Professional Education for Secondary Teachers

Students who plan to teach at the secondary level major in the subject area which they plan to teach and minor in the Education Department.

A minimum of twenty-one (21) semester hours is required for a minor in Education. Required courses in the minor are Psychology 233-234 (Human Growth and Development), Education 360 (Foundations of Curriculum), Education 370 (Methods and Materials in Teaching in the Secondary School), Education 470 (History and Philosophy of Educational Thought), and Education 480 (Directed Teaching). Students minoring in Education usually enroll in Psychology 233-234 during the sophomore year and in Education 360 during the junior year. Education 370 should be taken immediately before Education 480 (Directed Teaching) which is taken during the senior year. Education 470 should also be taken during the senior year. Students should note that prerequisites are established for each of the courses included in the minor. Any exceptions to these requirements must be approved by the Head of the Education Department.

Advisory System

Students who are majoring in the Education Department are assigned advisors in the Education Department. During each session meetings are scheduled to aid students in using this advisory system. All students majoring or minoring in the Education Department are expected to attend these informational meetings. Students can secure information concerning both the advisory system and the departmental program in Room 36 of Wilson Hall.

Description of Courses

EDUCATION 215. *Clinical Phonetics* (I or II; 3, 0), 3 credits.

An introduction to the relation of phonetic principles to speech and language therapy in clinical and classroom situations. Clinical applications of phonetics, including phoneme analysis, research findings in experimental and acoustic phonetics, and proficiency in translation and transcription of the International Phonetic Alphabet are emphasized. (Speech 319 is considered to be equivalent to Education 215.)

EDUCATION 320. *Anatomy and Physiology of the Ear and Vocal Mechanism* (I or II; 3, 0), 3 credits.

A study of the anatomy and physiology of the hearing and speech mechanisms. Attention is given to anomalies affecting speech production.

EDUCATION 330. *Audiology* (I or II; 3, 0), 3 credits.

An introduction to the symptoms, causes, and treatment of hearing disorders. Hearing test instrumentation and interpretation in clinical situations is emphasized.

EDUCATION 357. *Social Studies in the Elementary School* (I or II; 3, 0), 3 credits.

This course is designed to examine the content of the Social Studies, materials available in this area, and ways of organizing the group for learning.

EDUCATION 358. *Mathematics in the Elementary School* (I or II; 3, 0), 3 credits.

Consideration will be given to the use of manipulative, visual, and symbolic materials to give meaning to the number system, and to help the child to gain an understanding of number operations with whole numbers, fractions and decimals. The prospective teacher will consider what the pupils must learn, what the order of their learning must be, and what they must do to learn. Designed for students in Elementary Education.

EDUCATION 359. *Reading in the Elementary School* (I or II; 3, 0), 3 credits.

This is a basic course in the teaching of reading in the elementary school. The materials and procedures which are used in the modern school system are studied. Attention is given to teacher-made materials for use in the reading program. Testing for readiness and achievement in reading is emphasized. Specific attention is given to differentiating instruction for both fast and slow learners.

EDUCATION 360. *Foundations of Curriculum* (I or II; 3, 0), 3 credits.

This course deals with a study and evaluation of the factors, ideas, and issues which influence the public school curriculum. Consideration is given to such topics as: basic ideas which influence organization and content; various programs found in theory and practice; and the scope and sequence of the curriculum. *Prerequisite: Psy. 233-234 (or equivalent)*.

EDUCATION 364. *Reading Problems* (I or II; 3, 0), 3 credits.

An advanced course in reading. Students give reading tests and interpret results. They plan remedial programs and, as far as schedules allow, participate in corrective work. Students have an opportunity to improve their own reading habits. Two class meetings a week and one laboratory period to be arranged at time of registration.

EDUCATION 369. *Methods and Materials in Teaching in the Elementary Grades* (I or II; 3, 0), 3 credits.

This course is planned for those students preparing to teach in the elementary school. This is an integrated methods course designed to meet the developmental needs of youth in the various subject fields included in the elementary school curriculum. *Prerequisite: Ed. 360 (or equivalent)*.

EDUCATION 370. *Methods and Materials in Teaching in the Secondary School* (I or II; 3, 0), 3 credits.

This course is planned for those students preparing to teach in the secondary school. This is an integrated methods course designed to meet

the developmental needs of youth in the various subject fields included in the secondary school curriculum. *Prerequisite: Ed. 360 (or equivalent).*

EDUCATION 380. *Education of the Emotionally Maladjusted* (I or II; 3, 0), 3 credits.

This course will stress the detection of emotional problems; an analysis of the causes; and the organization of instruction with emphasis on specialized methods of teaching the emotionally disturbed child. *Prerequisites: Psy. 233-234.*

EDUCATION 390. *Curriculum and Methods for Teaching Children with Learning Disabilities* (I or II; 3, 0), 3 credits.

The organization of instruction for the exceptional child, with emphasis upon curriculum adjustment and specialized methods of teaching. *Prerequisite: Psy. 233-234.*

EDUCATION 400. *Speech Correction* (I or II; 3, 0), 3 credits.

An introduction to the field of speech correction. Consideration is given to the problems of diagnosis and corrective therapy in clinical and classroom situations. Observation and participation in activities at the Speech and Hearing Clinic.

EDUCATION 410. *Characteristics of Mentally Retarded Children* (I or II; 3, 0), 3 credits.

This course deals with a comprehensive overview of the field of mental retardation. The causes and prevention of mental deficiency; the characteristics of the mentally retarded; the techniques for identification; and the responsibility of the home, school, and community in the care and training of the mentally defective are among the topics studied.

EDUCATION 414. *Advanced Speech Correction* (I or II; 3, 0), 3 credits.

A study of the etiology and nature of organic and psychological speech disorders. Cerebral palsy, cleft palate, delayed speech, aphasia, stuttering and voice disorders are considered. *Prerequisite: Ed. 400 (formerly Spch. 410).*

EDUCATION 415. *Seminar in Organic Speech Disorders* (I or II; 3, 0), 3 credits.

Emphasis is placed upon the diagnosis and treatment of physically-related communication problems. Therapeutic techniques used with cleft palate and cerebral palsy cases are included. *Prerequisite: Ed. 414. (Formerly Ed. 500A).*

EDUCATION 416. *Seminar in Psychologically Related Speech Disorders* (I or II; 3, 0), 3 credits.

Therapeutic techniques in the area of speech pathology pertaining to psychologically related speech problems are considered. Included are such

areas as stuttering, voice disorders, and language impairments, with special attention to diagnostic and remedial procedures. *Prerequisite: Ed. 414.* (Formerly Ed. 500B).

EDUCATION 417. *Seminar in Aural Rehabilitation* (I or II; 3, 0), 3 credits.

Concentrated attention is given to communication problems of the hearing handicapped. Aural rehabilitation is emphasized, including lip reading and auditory training. *Prerequisite: Ed. 414.* (Formerly Ed. 500).

EDUCATION 450. *Reading Problems in the Secondary School* (I or II; 3, 0), 3 credits.

Problems such as developing fundamental reading skills, organizing the class to provide for individual differences in reading, testing reading skills, and developing special reading skills such as reading for organization, critical reading and reading for main ideas will be studied.

EDUCATION 465. *Speech Correction Practice* (I or II; 3, 0), 3 credits.

Designed to give students practice in the correction of speech problems; for students in the teaching program or students interested in professional work in speech correction; study under supervision in the schools and in the Speech and Hearing Clinic. Students who have received three hours credit for this course and who need or desire additional experience in this area may register for one, two, or three hours additional credit with the approval of the department head. *Prerequisite: Ed. 400 or approval of the instructor.* (Formerly Ed. 480S)

EDUCATION 470. *History and Philosophy of Educational Thought* (I or II; 3, 0), 3 credits.

This course includes a critical analysis of current problems of teachers as they relate to the major philosophies of modern education. *Prerequisite: Ed. 360 (or equivalent).*

EDUCATION 475. *Guidance in the High School* (I or II; 3, 0), 3 credits.

This course emphasizes the role of the classroom teacher in the high school guidance program. How to help adolescents solve their problems is one of the chief considerations. Experience in the use of standardized tests and other means of obtaining information about students is provided. Techniques of counseling are demonstrated.

EDUCATION 480. *Directed Teaching.* 6 credits.

Work under the direction of supervisors in the several training schools. Organization of materials for teaching, experience in classroom activities—direct teaching, guidance, recreation, study, management; teaching under public school conditions. *Prerequisite: Ed. 360, Ed. 369, Ed. 370 (or equivalent).*

Additional credit in directed teaching by approval in Ed. 480a, 3 semester credits; or Ed. 480b, 6 semester credits. Students may elect Education 480c for eight semester hours in student teaching.

Library Science majors may elect Education 480x for four semester hours in student teaching and four semester hours in directed library service.

EDUCATION 487. *The Use of Television in Education* (I or II; 3, 0), 3 credits.

This course is designed to familiarize and prepare prospective teachers in the understanding of educational television as a medium for classroom instruction. Included will be a study of the role of the television teacher, the problems involved in the production and receiving of programs, evaluation techniques, and procedures for relating the television lesson to the total curriculum.

EDUCATION 488. *Processes and Procedures in Modern Educational Media* (I or II; 3, 0), 3 credits.

The emphasis in this course will be the analysis and evaluation of programmed instruction, teaching machines and team teaching, and the development of criteria for evaluating these newer instructional methods and devices.

EDUCATION 490. *Independent Studies in Education*. 3 credits.

This course is designed to give capable students an opportunity to do independent research on educational or psychological problems under faculty guidance. The plan for the study must be presented to the Head of the Department for approval.

EDUCATION 499. *Honors in Education*.

EDUCATION 501. *Seminar in Educational Television* (I or II; 3, 0), 3 credits.

This workshop-type experience will explore the role of television and the implications of this medium for education.

EDUCATION 502. *The Elementary School Reading Program* (I or II; 3, 0), 3 credits.

The total elementary school reading program will be examined including basal reading, remedial reading, recreational reading and reading in the subject-matter fields. Various approaches to these four areas such as the basal reader approach, the individualized approach, and the linguistic approach will be studied.

EDUCATION 503A. *Early Childhood Education: Methods and Materials* (I or II; 3, 0), 3 credits.

Workshop type activities designed for teachers seeking to meet certification requirements for endorsement to teach in the kindergarten are provided in this course.

EDUCATION 503B. *Early Childhood Education: Growth and Development in Early Childhood Education* (I or II; 3, 0), 3 credits.

This course is designed to meet certification requirements for teachers seeking endorsement to teach in the kindergarten. The emphasis in the course is the growth and development of the young child.

EDUCATION 504. *Occupational and Educational Information* (I or II; 3, 0), 3 credits.

A survey of the sources of occupational information and their use in counseling individuals and groups; the philosophy and principles underlying the integration of occupational and educational guidance; the study of community job resources; and plant and industrial visits.

EDUCATION 505. *The Role of the School in Society* (I or II; 3, 0), 3 credits.

Interpretation of the school as society's agency for human betterment, with emphasis on cultural living. Some issues that arise in the organization and operation of the schools.

EDUCATION 506. *Teaching Reading Skills Beyond the Elementary Grades* (I or II; 3, 0), 3 credits.

Basic reading skills, special reading skills, testing, program organization, reading rate, and reading in the content areas will be among the problems considered in this course.

EDUCATION 507. *Diagnostic and Remedial Techniques in Reading* (I or II; 3, 0), 3 credits.

In this course various types of reading difficulty will be studied. The major emphasis will be upon diagnosis and remediation. Everyone will be expected to diagnose several subjects who are having difficulty in reading and write reports of their findings with recommendations for therapy.

EDUCATION 508. *Education of Mentally Retarded Children* (I or II; 3, 0), 3 credits.

This course deals with the organization of instruction for the trainable and educable mentally retarded and slow learner. Major emphasis will be on curriculum adjustment, specialized methods, and evaluation. Open to approved undergraduates.

EDUCATION 509. *Exploring the Early Childhood Education. Curriculum in Depth* (I or II; 3, 0), 3 credits.

Survey of theory and practice in contemporary early childhood curriculum and analysis of various methods used in working with young children. Consideration of research regarding curriculum planning and methods of teaching the disadvantaged child.

EDUCATION 510. *Applied Arts in Early Childhood Education* (I or II; 3, 0), 3 credits.

The creative process and its relationship to developmental stages of the child. Activities and materials are considered with reference to motivating the child and interpreting his self expression.

EDUCATION 512. *Secondary School Curriculum and Co-Curriculum* (I or II; 3,0), 3 credits.

This principles and forms of curriculum organization, with appraisal of such curricula patterns as the subject-matter curriculum, the correlated, fused, core and experience curriculum are included in this course. Also considered are the techniques for reorganizing the curriculum; leadership in curriculum development, and participation of teachers in curriculum improvement.

EDUCATION 514. *Seminar in Special Education* (I or II; 3, 0), 3 credits.

This course will include the analysis and evaluation of current research with its application to the field of special education. The study and evaluation of educational and sociological problems associated with exceptional children will be included.

EDUCATION 515. *Practicum in Special Education* (I or II; 3, 0), 3 credits.

Students will work in one to one relationships with a child with one or more exceptionalities under the supervision of a faculty member. Records will be kept, and methods and progress evaluated.

EDUCATION 516. *Theory and Practice of Guidance* (I or II; 3, 0), 3 credits.

An overview of the philosophy and function of guidance in public schools, the role of the classroom teacher in the guidance program, and organization for adequate guidance services will constitute the framework of the course. Consideration will be given to topics such as case studies, record keeping, testing, use of occupational information, and techniques of counseling.

EDUCATION 517. *Analysis of Learning Difficulties of Children* (I or II; 3, 0), 3 credits.

This course is designed to assist teachers in the analysis of common learning difficulties of children. Programs to meet the needs of these children will be developed, and appropriate guidance techniques examined.

EDUCATION 518. *Remedial Programs for Children with Learning Difficulties* (I or II; 3, 0), 3 credits.

This course will assist teachers in developing programs for children with defined learning disabilities. Materials, methods, and curricula will be analyzed and evaluated.

EDUCATION 525. *Teaching the Language Arts* (I or II; 3, 0), 3 credits.

This course considers teaching principles and techniques in particular subject fields for both elementary and secondary schools. The level of treatment is determined by the group enrolled and by the preferences of the instructor.

EDUCATION 530. *Teaching Mathematics in the Elementary School* (I or II; 3, 0), 3 credits.

This course is designed to assist experienced teachers to improve the teaching of mathematics in the elementary school. Opportunities for individual and group study of content, methodology, and instructional materials necessary to the design and implementation of instructional programs in modern mathematics will be provided.

EDUCATION 540. *Basis of Curriculum Development* (I or II; 3, 0), 3 credits.

This course is designed to help teachers determine what public schools in a democratic society should teach. Also included is the preparation of curriculum guides in all subject fields at both the elementary and secondary school levels.

EDUCATION 567. *Instruction* (I or II; 3, 0), 3 credits.

This course includes the following: The theory and practice of teaching in democratic school systems, techniques for studying children and youth; the group process in teaching; motivation of learning; teacher-student planning; the broad unit as a teaching instrument; the role of guidance in teaching; the cooperative appraisal of growth.

EDUCATION 591. *The Elementary School Curriculum* (I or II; 3, 0), 3 credits.

This course includes a study of the current practices in curriculum development for the elementary school. The activity program, the fusion of various subject-matter areas, the core concept, the development of group activities, and the promotion of creative learning are also considered. Special emphasis is given the role of the teacher in curriculum development.

DEPARTMENT of Psychology

DR. JOHN P. MUNDY, *Head of the Department*

Professors CALDWELL, HAYNES, and MUNDY

Associate Professors W. HALL and WINN

Assistant Professors J. DRIVER and H. MOORE

Instructors BLACK and JONIAK

The Department of Psychology offers a program of study designed to meet the needs of students planning to terminate their training with the bachelor's degree and for those preparing for graduate work. The undergraduate major in Psychology offers a broad course of study in which stress is placed upon the application of scientific methods to the solution of complex problems of individual and social behavior. For the student interested in graduate work the undergraduate major offers a broad foundation for specialization in a variety of fields of psychology.

The minimum requirement for a major in Psychology is thirty (30) semester hours to include Psychology 231-232 (General Psychology) or Psychology 233-234 (Human Growth and Development), Psychology 355 (Research Methods in Psychology), Psychology 486 (History and Systems of Modern Psychology), and Psychology 358 (Abnormal Psychology).

A minor in Psychology will include Psychology 231-232 (General Psychology) or Psychology 233-234 (Human Growth and Development), and twelve (12) additional semester hours in psychology as recommended by the Head of the Department.

Students interested in a program in the Department of Psychology should consult Dr. John P. Mundy, 27 Wilson Hall.

Four-Year Program for a Major in Psychology

FRESHMAN YEAR

	<i>Credits per Semester:</i>	<i>1st</i>	<i>2nd</i>
Bio. 110. General Biology	4	0	
Bio. 120. General Zoology	0	4	
Eng. 101-102. Reading and Composition.....	3	3	
Hth. 200. Personal and Community Health.....	0	2	
Hist. 233-234. United States History.....	3	3	
Math. 125-126. Introduction to College Mathematics.....	3	3	
Spch. 200. Oral Communication	2	0	
Basic Studies Requirement in Physical Education.....	1	1	
		<hr/>	<hr/>
		16	16

SOPHOMORE YEAR

Art 200. Art in General Culture.....	0	3	
Eng. 233-234. Introduction to Literature.....	3	3	
Math. 220. Elementary Statistics	3	0	
Mus. 200. Music in General Culture.....	3	0	
Psy. 231-232. General Psychology (or Psy. 233-234. Human Growth and Development).....	3	3	
Soc. 139. Principles of Sociology.....	3	0	
Basic Studies Requirement in Physical Education.....	1	1	
Basic Studies Requirement in a Physical Science.....	0	4	
Electives	0	2	
		<hr/>	<hr/>
		16	16

JUNIOR YEAR

Psy. 355. Research Methods in Psychology.....	3	0	
Psy. 357. Psychology of Personality.....	3	0	
Psy. 358. Abnormal Psychology	0	3	
Psy. 369. Psychology of Early Childhood.....	0	3	
Psy. 476. Psychology of Exceptional Children.....	3	0	
Psy. 479. Psychology of Learning	3	0	
Psy. 486. History and Systems of Modern Psychology....	0	3	
Elective in Social Science	0	3	
Electives	4	4	
		<hr/>	<hr/>
		16	16

SENIOR YEAR

Psy. 485. Psychology of Motivation.....	3	0	
Psy. 488. Mental Tests and Measurements.....	0	3	
Electives	13	13	
		<hr/>	<hr/>
		16	16

Description of Courses

PSYCHOLOGY 100N. *Psychology for Students of Nursing* (Summer; 3, 0), 3 credits.

The physical basis of mental life, the endocrine glands, the motivation of behavior, socialization, adjustment to life, personality development, psychosomatic illness, psychoneuroses, psychoses, learning and re-education. (*Open only to student nurses of the Rockingham Memorial Hospital.*)

PSYCHOLOGY 215. *Applied Psychology* (I; 3, 0), 3 credits.

A survey of the application of the principles of psychology to the various professions and to personal efficiency and adjustment.

PSYCHOLOGY 216. *Psychology in Business and Industry* (II; 3, 0), 3 credits.

Employee selection, classification, and training, performance appraisal, employer motivation and morale. Selection of industrial leadership. Demonstration and discussion of representative selection and classification tests used in business and industry.

PSYCHOLOGY 231-232. *General Psychology* (I and II; 6, 0), 6 credits.

An introductory course designed to acquaint students with the field of Psychology as a scientific discipline concerned with the study of behavior. Consideration will be given to such topics as human development, motivation, emotion, perception, learning, personality, intelligence, measurement and applied areas. This course is recommended for Psychology majors.

PSYCHOLOGY 233-234. *Human Growth and Development* (I and II; 6, 0), 6 credits.

This course is designed to develop an understanding of the principles and theories of human growth and development and to create an awareness of the factors which influence human behavior. Case studies, and observations of children are required aspects of this course. This course is specifically designed to meet the Virginia certification requirements in the area of human growth and development.

PSYCHOLOGY 240. *Survey of Exceptional Children* (I; 3, 0), 3 credits.

This is a general survey course of the entire field of special education.

PSYCHOLOGY 355. *Research Methods in Psychology* (I; 3, 0), 3 credits.

This course is designed for the undergraduate major in Psychology or other behavioral science. It presents to the student a review of descriptive and inferential statistics, sampling theory principles, and basic experimental design. This course is especially designed to equip the student to better understand original literature in the fields of Psychology. *Prerequisite: Math. 220 (or equivalent).*

PSYCHOLOGY 357. *Psychology of Personality* (I; 3, 0), 3 credits.

This course deals with the development of human personality, particularly in the early stages. The implication of mental hygiene for the school child and for the teacher will be studied. Special emphasis will be placed on the interplay of heredity and the various forces of environment and of society on the development of the integrated personality. Personality tests will be given and class and individual discussions of personality problems will be included. *Prerequisite: Psy. 231-232, or Psy. 233-234 (or equivalent).*

PSYCHOLOGY 358. *Abnormal Psychology* (II; 3, 0), 3 credits.

This course includes origin and classification of mental abnormalities and also a survey of diagnosis, therapy, and prevention. Some attention is given to cultural and philosophical factors with emphasis on creative self-actualization as a standard of mental health. *Prerequisite: 231-232, or Psy. 233-234 (or equivalent).*

PSYCHOLOGY 369. *Psychology of Early Childhood* (I or II; 2, 2), 3 credits.

Techniques of guiding young children based on an understanding of the preschool child are explored in this course. The philosophy of early childhood education is analyzed and basic principles and practices are examined. *Prerequisite: Psy. 231-232, or Psy. 233-234 (or equivalent).*

PSYCHOLOGY 476. *Psychology of Exceptional Children* (I; 3, 0), 3 credits.

This course deals with the problems of exceptional children. The major purpose is to gain a functional understanding of the various types of psychological and physical deviates, both as to the genesis of their behavior processes, their treatment, and the guiding principles involved in their education. *Prerequisite: Psy. 231-232, or Psy. 233-234, and Psy. 240.*

PSYCHOLOGY 478. *Growth and Development in Adolescence* (II; 3, 0), 3 credits.

This course is designed to examine and describe the essential nature of adolescence in the light of objective evidence provided by modern psychological research. Open to all students, this course is particularly valuable for students preparing to work with adolescents. *Prerequisite: Psy. 231-232, or Psy. 233-234 (or equivalent).*

PSYCHOLOGY 479. *Psychology of Learning* (I; 3, 0), 3 credits.

Examination of the basic principles of learning and conditioning. Consideration will be given to such topics as extinction, reinforcement, generalization, discrimination, transfer, concept formation, and verbal learning. Some emphasis on theories and special theoretical problems. *Prerequisite: Psy. 231-232, or Psy. 233-234 (or equivalent).*

PSYCHOLOGY 480. *Laboratory in Child Study* (I or II; 2, 2), 3 credits.

Designed for students in the teaching curricula, this course will deal with the many sources of data about children, the ways of collecting and recording these data, and the techniques employed in analyzing recorded information about children and in using the findings to provide better learning environments. Each student will observe child behavior and participate in the program of the campus school. *Prerequisite: Psy. 369 (or equivalent).*

PSYCHOLOGY 485. *Psychology of Motivation* (I; 3, 0), 3 credits.

This course involves an advanced study of motivation in relation to perception, learning, emotions, and problem solving. Much attention is given to current experimental data. *Prerequisites: Psy. 231-232, or Psy. 233-234 (or equivalent).*

PSYCHOLOGY 486. *History and Systems of Modern Psychology* (II; 3, 0), 3 credits.

A study of the more recent development of the so-called "schools of psychology," including a study of the experimental contributions of each school. A selected number of experiments will be performed by the class and by individuals and wide reading in current psychological literature, in both the theory and the experimental work of each school, will also be required. *Prerequisite: Psy. 231-232, or Psy. 233-234 (or equivalent).*

PSYCHOLOGY 487. *Social Psychology* (I; 3, 0), 3 credits.

A study of the psychological factors involved in social behavior. Considers the interaction of personalities in society, resulting in social attitudes, culture, and institutions. The development of such phenomena as customs, crowd behavior, clubs, public opinions, propaganda, leadership, and problems of community life will be considered. *Prerequisite: Psy. 231-232, or Psy. 233-234 (or equivalent).*

PSYCHOLOGY 488. *Mental Tests and Measurements* (II; 3, 0), 3 credits.

This course deals with the procedures and use of a testing program. Mental, personality, achievement, and aptitude testing is included. Students score and interpret test results. Statistical procedures necessary to interpret scores are studied. *Prerequisite: Psy. 231-232, or Psy. 233-234 (or equivalent).*

PSYCHOLOGY 490. *Independent Studies in Psychology* (I or II), 3 credits.

This course is designed to give capable students an opportunity to do independent research on psychological problems under faculty guidance. The plan for the study must be presented to the Head of the Department for approval.

PSYCHOLOGY 518. *Growth and Development During Childhood and Pre-adolescence* (Summer; 3, 0), 3 credits.

The principles underlying the growth and development of boys and girls in the elementary school are explored in this course. Extensive reading

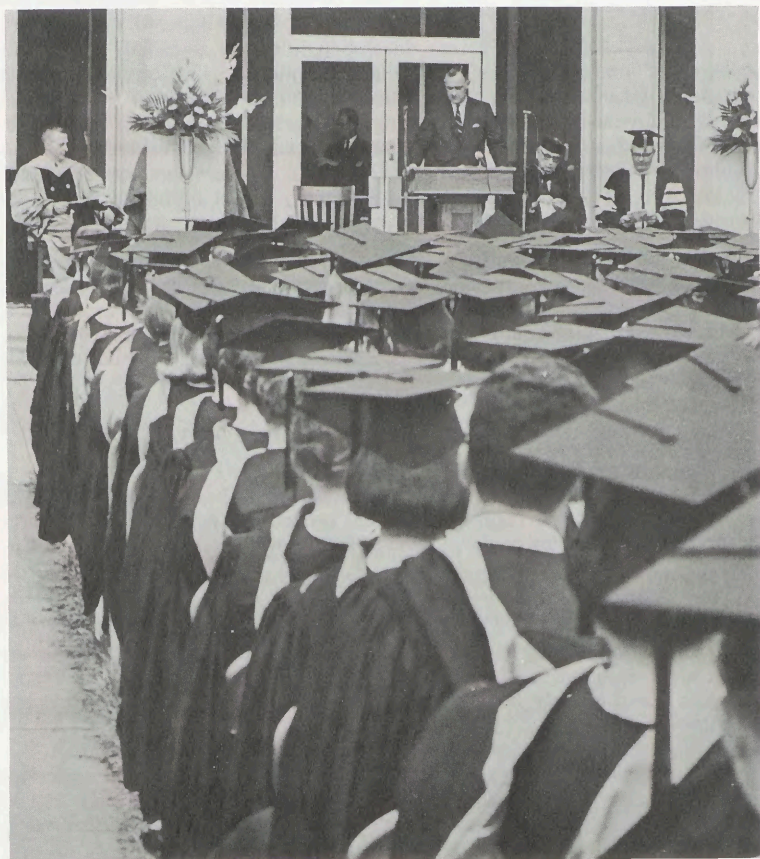
and analysis of current research is required. *Prerequisite: Psy. 231-232, or Psy. 233-234 (or equivalent).*

PSYCHOLOGY 520. *Personality Dynamics* (I; 3, 0), 3 credits.

This course deals with the major theories of personality and identifies implications of each theory for education, business, medicine, industry, law enforcement, and civic and religious groups. *Prerequisite: Psy. 357 (or equivalent).*

PSYCHOLOGY 522. *Advanced Abnormal Psychology* (II; 3, 0), 3 credits.

A consideration of the symptomatologies, etiologies and therapies of the major neuroses and psychoses, with implications for the various professions. *Prerequisite: Psy. 358 (or equivalent).*



Expenses and Financial Aid

Fees and Expenses

Listed below are the various fees and charges for undergraduate students at Madison College. *The College reserves the right to adjust fees and charges if deemed advisable by the Board of Visitors because of rising costs or other conditions.*

Regular Fees

	<i>Per Semester</i>	<i>Per Year</i>
1. General Fee	\$220.00	\$440.00
2. Student Activity Fee	17.00	34.00
3. Room, Board, and Laundry	272.50	545.00
4. Tuition Fee Required of Non-Virginia Students Only	180.00	360.00
5. Service Fee for Full-Time Day Students (Carrying twelve (12) or more credit hours—nurses excepted)	6.00	12.00
6. Infirmary Fee—Dormitory Students	15.00	30.00
Day Students	5.00	10.00
7. Construction Fees		
Dormitory students	135.50	271.00
All other full-time students	38.00	76.00

Summary

	<i>Per Semester</i>	<i>Per Year</i>
Virginia Day Student	286.00	572.00
Virginia Boarding Student	660.00	1,320.00
Non-Virginia Day Student	466.00	932.00
Non-Virginia Boarding Student	840.00	1,680.00

This summary includes the charges per semester for room (\$92.50), board (\$165.00), laundry (\$15.00), and all other charges except for music.

Maintenance Deposit Fee: Beginning with the 1968-69 session, a Maintenance Deposit Fee of \$25.00 will be charged each dormitory student. This fee is payable only once. Any charges for damage or breakage assessed against the student will be taken from this fee. Any remaining balance will be refunded to the student upon graduation, dismissal, or withdrawal from the college.

Student Activity Fee: A charge of \$17.00 per semester is made for all students and is used to finance the various student organizations, publications, and the Entertainment Series. From the collections of this fee, each student is also furnished, without extra charge, a copy of the College annual, *Bluestone*, and a subscription to the College newspaper, *The Breeze*.

Non-Virginia Students' Fee: As is noted above, an additional tuition fee is required of students who are not residents of Virginia. Chapter I, Section

23-7 of the Virginia School Laws, provides that a student is not entitled to the rates for Virginia students "unless such person has been a bona fide citizen or resident of Virginia for a period of at least one year prior to admission to said institution."

Service Fee for Day Students: A fee of \$6.00 per semester is charged all full-time day students to cover expenses for day-student lounges and other facilities provided for them on the campus.

Construction Fee: Due to a change in State policy, the College must now charge a fee for dormitory and other college buildings financed, in whole or in part, by bond issues, to provide for sinking fund requirements. Only dormitory students will pay dormitory construction fees.

Parking Fee: A parking fee will be paid by each student who operates a vehicle on campus. The purpose of this fee is to defray the expense of registering vehicles and supervising parking facilities:

Infirmary Fee: Each full-time student is required to pay the infirmary fee for use of infirmary facilities.

General Fees for Student Nurses (Rockingham Memorial Hospital): One half of regular charge by special authorization of the Board of Visitors.

Part-Time Students: If a student enrolls in less than twelve (12) credit hours the charge will be at the rate of \$15.00 per credit hour. Additional out-of-state tuition in the amount of \$12.00 per credit hour will be charged each student who has not been a bona fide citizen of Virginia for at least one year. Full rates are charged for twelve (12) or more credit hours.

Student Teaching: Any student taking student teaching in conjunction with other courses will be classed as a full-time student and will be charged full rates.

Auditor's Fees: A person who registers as an auditor will pay the same General Fee as one who registers for credit.

Applied Music Fees: The fees for full-time students will be as follows:

1. Instruction in voice, piano, violin, or other orchestral instrument

	<i>Fee</i>	<i>Practice</i>	<i>Total</i>
2 half-hour lessons per week per semester.....	\$50.00	\$ 5.00	\$55.00
1 half-hour lesson per week per semester.....	30.00	5.00	35.00
1 to 15 lessons per semester, each.....	1.90	.30	2.20

2. Instruction in organ

2 lessons per week per semester.....	\$50.00	\$10.00	\$60.00
1 lesson per week per semester.....	30.00	10.00	40.00
1 to 15 lessons per semester, each.....	1.90	.60	2.50

The number of lessons each student wishes to take will be arranged with instructors at the time of registration. A registration fee of \$7.50 per

semester is charged music students who register only for applied music, if they desire, and are qualified for college credit for such course or courses.

The semester fee for part-time students taking applied music will be \$40.00 for one lesson per week and \$80.00 for two lessons per week.

Diploma Fee: The diploma fee will be \$5.00 for a Bachelors and \$7.50 for a Masters.

Special Examination Fee: A charge of \$5.00 is made for each deferred examination and for the one re-examination permitted each graduating senior. Permission to take the deferred examination must be obtained from the Dean of the College. The permission slip along with a receipt from the Treasurer's Office must be presented to the instructor prior to the examination.

Fee for Course or Schedule Adjustment: Students who desire to make changes in courses or schedule are required to do this on the day set aside for that purpose during the registration period. Students who make adjustments at times other than the designated date are subject to a fee of \$5.00. This fee may be excused if circumstances requiring changes are completely beyond the student's control and if the change is approved by the Dean of the College.

Fee for Late Registration: Students are subject to a fee of \$5.00 if they do not complete registration at the designated time. The Dean of the College may allow exceptions due to extenuating circumstances.

Books and Supplies: The cost of textbooks varies according to the classes in which the student is registered, but this amount may be greatly reduced by reselling the books and by purchasing secondhand texts from the College Bookstore.

Telephone Fee: Students living in the newly constructed dormitories will be required to pay a small telephone fee for the privilege of having a telephone in their suite.

Payments of Fees and Expenses

All fees and expenses are to be paid at the beginning of each semester. By special arrangement with the Business Manager of the College, the semester expenses of boarding students may be paid in two installments, if a parent cannot make full payment at the first of a semester.

Advance Payments: An Application Fee of \$10.00 is required of all students (day, boarding, and special). For new students, this payment must accompany the application for admission; for upper-class students, the payment must be made at the Treasurer's Office before April 1 by those planning to return to college during the following session. This fee is not refundable, will not be transferred to another session and will not be credited to the student's account.

For all dormitory students (both new and upper-class), an additional advance payment of \$92.50 will be required in order to hold the room reservation, payment of which must be made by upper-class students before May 1 and by new students, transfers, and reentries by May 1. It will be credited to the student's account when registration is completed in September. This payment is not refundable after May 1 except for personal illness certified by a physician, for unavoidable emergency or other extenuating circumstances approved by the President, or for upper-class students who do not have the required quality point rating by the end of the summer session.

Debts Owed to the College: Re-enactment by the Madison College Board of Visitors of a former regulation first established by the State Board of Education requires (1) that no credit for college work may be given to any student for a diploma, or a teacher's certificate, or for transfer purposes, until all debts to the College, other than student loans, have been paid; (2) that students will not be eligible to take examinations unless accounts are paid in full for the current semester or a satisfactory plan to pay the balance has been arranged with the Business Manager; and (3) that upon recommendation of the Business Manager and with the approval of the Dean of the College, students who are deficient in their accounts may be restricted from attending classes until satisfactory arrangements have been made for payment of their past due obligations to the College.

Medical Service Expenses

The infirmary, staffed by a college physician and trained nurses, provides health and medical service for all full-time students. This service covers the furnishing of simple remedies and of ordinary nurse's and physician's attendance. It will not cover the cost for the student of specially compounded prescriptions, special private nursing, hospital care in serious and protracted cases, surgical operations, or the service of specialists; but for practically all students it will cover all requirements for medical attention and supplies.

Day students who are eligible for infirmary service will receive the same medical service as boarding students except that they will not be entitled to room and board at the Infirmary.

Refunds

The following charges and refunds apply to students withdrawing from the College and to late entrances and absences. Refunds will be figured from the effective date of withdrawal, which is not necessarily the date of leaving campus.

Fees: Students who withdraw from the college within five days after registration will be charged the Minimum Registration Fee of \$15.00. For withdrawal after five days, but before the middle of the session, students will be charged one-half of the general fee and all other fees in full. After

the middle of the session no adjustment in fees will be made for withdrawal from college.

Students who withdraw due to illness certified by a physician, or for unavoidable emergency, or extenuating circumstances approved by the President of the college, will be charged a pro rata share of all fees.

Room Rent, Board and Laundry: Room rent will be charged in full unless fees are adjusted on the basis of the preceding paragraph. Table board and laundry will be pro-rated for the actual time in residence.

Enforced Withdrawal: Any refunds made to students whose connection with the College terminates on account of disciplinary action or enforced withdrawal will be at the discretion of the President of the College.

Late Entrance and Absence: No adjustment in the charge for room and board will be made for late entrances not in excess of ten days or absence not in excess of fourteen days.

Guests

Students may invite relatives or friends to meals at the College by obtaining permission from the Food Service Manager and by purchasing the necessary meal tickets. Alumni of the College are always welcome and are not charged for room accommodations for a period not exceeding two days. Those who remain for a longer period will be charged the regular rate of \$1.50 per day. Meal tickets for alumni may be purchased from the Food Service Office. Alumni eligible for this privilege must be former students who have attended the College for at least one full academic year. The privilege is not extended to students visiting the campus during the summer if they will be regular students for the ensuing session.

Campus Banking Facility

The College desires that students shall not have on hand much spending money as extravagance of every kind is discouraged. It further requests that spending money in any considerable amount not be kept in the student's room but be deposited with the Treasurer in the Student Deposit Fund and withdrawn as needed. For this purpose, a banking system has been devised and students not only have the advantage of safety against loss, but also get valuable practice in business methods.

Scholarships, Student Employment and Loans

The College endeavors to assist capable students in financing their college education. We feel that funds expended for this purpose do much to improve the quality of living. We need more investments of this nature and it is heartening each year to note the increased number of scholarships becoming available to able students through gifts from individuals and from worthy scholarship projects of local community organizations.

As the sources of financial aid increase, the high school counselors and college financial aid officers will be called upon to help students work out "package financial plans" that may include a scholarship, employment and a loan combined to make it possible for a qualified student with low income to attend college.

A scholastic average of "C" or 2.00 on a four-point scale is a general requirement for upperclassmen at Madison College to be eligible for financial aid. (Exception-Dining Hall Service.)

Since the demand for scholarship, employment and loan assistance at Madison is generally competitive, it is essential that ALL APPLICANTS FILE THEIR APPLICATIONS FOR ANY FINANCIAL AID BEFORE THE MAY FIRST DEADLINE.

State Scholarship Loan for Prospective Teachers

The General Assembly of Virginia has provided funds for a number of scholarships at Madison College for students who are preparing to be teachers in the Virginia Public Schools.

I. Eligibility

A. The candidate must:

1. Be a resident of Virginia who is preparing to teach in the Virginia Public Schools in the elementary grades or in subjects generally offered in Virginia high schools.
2. Possess scholastic ability and personal characteristics desirable for effective teaching.
3. Be a student classified as a freshman, sophomore, junior, or senior in a state-supported or private, non-sectarian, degree-granting college or branch thereof in Virginia approved under the scholarship plan or a community college under the State Community College Board which meets the requirements of the scholarship program.

4. Be enrolled in a curriculum including Student Teaching and qualifying him for a Collegiate Professional Certificate. Upon the recommendation of the College, a student planning to enter the Master of Arts in Teaching program the next academic year following his receiving the baccalaureate degree may be permitted to forego Student Teaching during his senior year but shall be required to take it during his Master of Arts in Teaching program.
- B. Summer Session Study—A student who continues study in a summer session in order to secure a degree in less than four calendar years may be considered eligible for a Prorated Summer Regular Term Scholarship Loan. The scholarship aid for this purpose will be available at the rate of \$117 per summer based on ten semester hours (\$12 per semester hour if less than ten semester hours).
- C. Only a limited number of carefully selected freshmen will be eligible. Such freshmen candidates must:
1. Possess good scholastic ability as indicated by above average rank in his or her high school class and by above average score or rank on a standardized scholastic aptitude or achievement test.
 2. Have an established record of good citizenship and possess personal characteristics regarded as desirable for effective teaching. This should be confirmed by interview with college officers and by recommendations of former teachers.
 3. Possess such other qualifications as the College authorities may prescribe in picking out highly selected candidates.

II. *Cancellation of Promissory Notes of Scholarship Recipients*

1. A candidate must agree to sign and execute a promissory note to the Commonwealth of Virginia for the amount of scholarship aid received, which obligation shall bear interest at the rate of 6% per annum. The note must be endorsed by a responsible adult who is a Virginia resident.
2. Each note plus interest can be cancelled in full by teaching under contract one full school year in the public schools of Virginia immediately following graduation from college.
3. If the scholarship recipient fails to teach in the public schools of Virginia immediately following graduation from a Virginia college, the oldest note with interest shall become due and payable on the date shown on the same. If the scholarship recipient does not begin teaching in the public schools of Virginia the second year following graduation, all notes with interest become immediately due and payable.
4. If a scholarship recipient leaves a Virginia college prior to graduation and does not enroll in a teacher preparatory curriculum (designed to qualify him for the Collegiate Professional Certificate) of another college, all notes plus interest become due and payable immediately.

5. If a scholarship recipient leaves a Virginia college prior to graduation but enrolls in the teacher preparatory curriculum (designed to qualify him for the Collegiate Professional Certificate) of another college, repayment of the note or notes plus interest shall be postponed until his graduation from college. In this instance each note plus interest can be cancelled by one full year of teaching immediately following graduation.
6. If a scholarship recipient performs military service the repayment of the uncanceled notes will be postponed until he has completed his original tour of duty. Copy of orders to report for such service must be sent to the State Department of Education. If the recipient does not cancel his note or notes by teaching in the public school system of Virginia, there will be no suspension of interest because of military service. If the recipient voluntarily re-enlists, all notes plus interest become due and payable immediately following such voluntary re-enlistment.
7. If a scholarship recipient (having completed requirements for the Collegiate Professional Certificate) accompanies the spouse on the original tour of duty in military service, the repayment of uncanceled loans will be postponed for such period of time not exceeding three years.
8. A one-year postponement for cancelling promissory notes will be allowed for maternity reasons (before or after graduation from college) or for the pursuit of a Master's Degree.
9. If undergraduate program is shortened by including Prorated Summer Session Scholarships with Regular Term Scholarships, the period of teaching to cancel the four or more loans will not extend over more than four school years.
10. Any note or notes plus interest not cancelled by teaching in the public school system of Virginia shall be repaid in lump sum or in accordance with a repayment schedule prescribed by the State Superintendent of Public Instruction. Interest shall be computed from the date of each note to the date of payment in full.
11. If it becomes necessary to place a note in the hands of an attorney for collection, a 15% charge as the attorney's fee in addition to the amount due on the note at the time of collection shall be paid by the maker and/endorser.
12. If it becomes necessary to place the account in the hands of an attorney for collection, the State Superintendent of Public Instruction is authorized to revoke the teaching certificate of the maker and/or endorser until the note or notes are paid.
13. It is the responsibility of the maker of a note to keep the Superintendent of Public Instruction informed of change in address, change in graduation date, enrollment in another college, military service, and name of school or schools in which teaching service is rendered until the total obligation is satisfied.

14. The Superintendent of Public Instruction may in his discretion:

- a. Extend the time for teaching to cancel a loan or for repayment in the event the scholarship recipient on account of illness or other extenuating circumstances fails to complete in the expected time the study as shown on the application or is not able to complete within the expected time the necessary teaching to cancel his entire obligation.
- b. Accept as partial cancellation of a note less than one year of teaching if the scholarship recipient is prevented on account of illness or other extenuating circumstances from completing a full year of teaching service. No credit will be allowed for teaching less than one full semester.

15. The State Board of Education may in its discretion cancel both principal and interest in whole or in part in the event of death or prolonged or serious illness of the scholarship recipient.

III. *Application Procedure*

- A. The President of the College or his authorized representative will recommend candidates, who are preparing for teaching in accordance with the regulations mentioned above. Freshmen candidates will be recommended in accordance with the special regulations prescribed by the State Board of Education, as explained in the eligibility provisions above. *No application forms will be issued to applicants from the State Department of Education.*
- B. The prescribed and current application form must be used and submitted to the State Department of Education. If the application is approved by the Department, the applicant will be notified through the college. In considering applications for scholarships, preference will be given to applicants preparing to teach in the elementary schools.
- C. It is desirable that all applications be submitted by May 1. Applications for the academic year must be submitted to the State Department of Education prior to September 1. Applications submitted after that date will be considered for approval for the second semester only within available funds. Applications for the second semester only must be submitted prior to February 1. Applications for study in the summer quarter must be submitted by April 1.

IV. *Payment to Student*

When the State Board of Education has approved a scholarship grant, the applicant must sign a promissory note in the proper amount bearing interest from date of note, at 6% per year, which must be endorsed by a responsible, adult citizen of Virginia. When this note is accepted and the candidate is reported by the College as enrolled with a full program of work (15 semester hours unless reduced for student teaching), a check **WILL BE SENT TO THE RECIPIENT THROUGH THE COLLEGE.**

Scholarship aid as defined in these regulations will be available in the maximum amount of three hundred fifty dollars (\$350) per school year. If the application for scholarship aid is approved for less than a full school session of nine months, the amount of the loan cannot exceed one hundred seventeen dollars (\$117) per quarter or one hundred seventy-five dollars (\$175) per semester.

V. *Effective Date*

These Regulations are applicable to notes dated on and after October 1, 1967 except as follows:

1. The provisions of Item 7 with respect to postponement of obligations of the spouse of military personnel during original tours of duty are applicable to outstanding notes or any portion thereof as of December 1, 1967. Recipients who are now making payments on teaching scholarship loans will be permitted to discontinue such payments, but this action shall not be construed as authorizing any refunds.
2. The 6% interest rate will apply to all notes issued on and after June 1, 1968.

General Scholarships

Madison College Scholarships (Unfunded): Madison College is authorized to award a number of scholarships to Virginia students which shall be applied exclusively toward the revision of instructional charges. Madison College will award these scholarships each year in the amount of two hundred fifty dollars (\$250) for each regular nine months' session. Freshmen students who wish to apply for these scholarships must have maintained a high scholastic standard in high school which demonstrates ability to pursue college work successfully and must present evidence of need for financial assistance.

Upperclass students are also eligible for this scholarship who have an above average college academic record and who have need for financial aid. The Madison College scholarship is renewable upon the bases of continuing need and an above average scholastic rating.

General Undergraduate Scholarships (G.U.S.): The 1968 General Assembly appropriated funds for the 1968-70 biennium for undergraduate scholarships for Virginia students in State four-year institutions of higher education. Madison College will award a number of these scholarships for the 1969-70 Session. These scholarships are outright grants and will average approximately two hundred fifty dollars (\$250) each for a nine months' session.

To be eligible a recipient shall be a legal resident of Virginia and have an established record of good personal character and citizenship. He must also be enrolled in or accepted for admission to a regular full-time program of study leading to a baccalaureate degree at a four-year state-controlled institution and demonstrate that financial assistance is needed to attend college.

Each scholarship is awarded for one academic year and is renewable for succeeding years only upon continuing eligibility and availability of funds. The scholarship award shall be credited to the student's account on the basis of one-half of the scholarship to each semester. Participating institutions shall require each scholarship holder to sign an agreement to repay any unused portions of the scholarship in the event of his withdrawal from college for other than extenuating circumstances.

Educational Opportunity Grant: This is a program of direct awards to undergraduate students made available by the Congress in 1965. Madison College will award a number of these grants to students with exceptional financial need who require them to attend college. To be eligible, the student must also show academic or creative promise.

Eligible students who are accepted for enrollment on a full-time basis or who are currently enrolled in good standing, may receive Educational Opportunity Grants for each year of their higher education, although the maximum duration of a grant is four years.

Grants will range from two hundred dollars (\$200) to one thousand dollars (\$1,000) a year and can be no more than one-half of the total assistance given the student.

The amount of financial assistance a student may receive depends upon his need—taking into account his financial resources, those of his parents, and the cost of attending the college of his choice.

The Duke Memorial Scholarship: This scholarship has been established in memory of the late Samuel Page Duke, who served so ably as President of Madison College from 1919-1949. This scholarship is provided from funds by each senior class and is awarded annually to the member of the junior class who has the highest scholastic record for five semesters while a student at Madison College and it is available for the senior year.

The Helen M. Frank Scholarship: This is a scholarship of one hundred dollars (\$100) established by the alumnae of Psi Chapter, Alpha Sigma Tau, in honor of Miss Helen M. Frank, who served as adviser to the chapter from the date of its organization in 1944 until her retirement in 1960. The award is presented to a junior in Alpha Sigma Tau for outstanding scholarship and for possessing the ideals of the sorority.

The Edna T. Shaeffer and Glee Club Scholarship: This fund has been established as a memorial to Miss Shaeffer who served in the Madison Music Department and as Director of the College Glee Club for forty-one years, and to all former members of the Madison Glee Club. The award is presented to a music student, preferably a child of a former Glee Club member. Applications for the scholarship should be submitted to the Alumni Office of the College.

The Bernice R. Varner Scholarship: This scholarship, created in 1960 by the Panhellenic Council in appreciation of the years of leadership and service given to the Greek Letter Community of Madison College by Mrs. Varner, is awarded to a second semester sophomore or a member of the

junior class chosen by the Council on criteria including a cumulative average of 2.75 or above. Both men and women are eligible.

The Ruth McNeil Thornhill Scholarship: This is an annual scholarship of one hundred dollars (\$100) established by the Culpeper Chapter of the Alumni Association for a Culpeper student attending this College.

Student Employment

Dining Hall Service: Madison College students, both men and women, freshmen and upperclassmen, are employed to assist in the serving of the meals in the dining hall on the campus. For their services they receive compensation for the nine months' session ranging from two hundred eight dollars (\$208) to six hundred sixty dollars (\$660) depending upon the number of hours worked per week. The meals in the Madison College Dining Hall are served cafeteria style. It requires approximately one hundred fifty (150) students to operate this facility and they are able to earn a sizeable portion of their college expenses from this employment scholarship. The students who receive these scholarships are selected on the bases of merit, date of application, financial need and personal qualifications. The scholarship is awarded on a yearly basis and is renewable upon re-application and approval by the Food Service Manager and Director of Admissions and Student Aid.

Ten Hour Service: Madison College provides funds for approximately two hundred forty (240) employment scholarships of four hundred forty dollars (\$440) each for a nine months' session. Students, both freshmen and upperclassmen, who are assigned to these positions serve as assistants in the library, administrative offices, dormitories, laboratories, post office and gymnasium. The students work approximately ten to twelve (10-12) hours per week and the scholarships are renewable each year upon re-application and approval by the supervisor and the Director of Admissions and Student Aid. The scholarships are awarded upon the bases of merit, date of application, financial need and personal qualifications.

Music Service: Madison College has established a number of scholarships in the Music Department open to talented music students, especially in the strings and instrumental field. These scholarships will enable the student to earn an amount of four hundred forty dollars (\$440) for a nine months' session. Applications for these scholarships should be filed as early as possible. They are open to both freshmen and upperclassmen and are renewable upon satisfactory performance both academically and musically.

College Work-Study: A federal supported program of employment for students, especially those from low-income families who need a job to help pay for college expenses. Eligible students may work up to fifteen (15) hours a week while attending classes full time. The basic pay rate is one dollar and thirty cents (\$1.30) an hour although up to three dollars (\$3) may be paid for highly specialized work. On campus jobs can include work in the dining halls, laboratories, libraries and maintenance in addition to secretarial positions for the faculty and administration. To work under this program, a student must be enrolled and be in good standing, or be accepted for enrollment as a full-time student at Madison College. The student's eligibility

depends upon his need for employment to defray college expenses and his academic promise with preference given to applicants from low-income families. The work-study assignments are renewable each year contingent upon need and an acceptable grade average.

Madison College only participates in the on-campus phase of the College Work-Study Program.

Student Loans

National Defense Student Loans: This is a program of borrowing. Madison College has participated in the National Defense Student Loan Program since 1959. Freshmen who have been accepted for enrollment or upper-classmen with acceptable academic averages who are enrolled in full-time or at least half-time courses at Madison College and who need financial aid for educational expenses are eligible for National Defense Student Loans. Madison College only has funds available for full-time student borrowers.

An undergraduate student may borrow up to one thousand dollars (\$1,000) each academic year to a total of five thousand dollars (\$5,000). Graduate students may borrow as much as two thousand five hundred dollars (\$2,500) per year to a maximum of ten thousand dollars (\$10,000). The repayment period and the interest do not begin until nine months after the student ends his studies. The loans bear interest at the rate of 3 per cent per year and repayment of principal may be extended over a ten-year period, except that the institution may require a repayment of no less than fifteen dollars (\$15) per month.

If a borrower becomes a full-time teacher in an elementary or secondary school or in an institution of higher education, as much as half of the loan may be forgiven at the rate of 10 per cent for each year of teaching service. Borrowers who elect to teach in certain eligible schools located in areas of primarily low-income families may qualify for cancellation of their entire obligation at the rate of 15 per cent per year.

The colleges and universities approve and make the loans and are responsible for collections. Repayment may be deferred up to a total of three years while a borrower is serving in the Armed Forces, with the Peace Corps, or as a Volunteer in Service to America (VISTA). Repayment is deferred for as long as a borrower is enrolled at an institution of higher education and is carrying at least a half-time academic work load.

Franklin Sherman Loan Fund: A memorial loan fund to the memory of Captain Franklin Sherman, a distinguished citizen who for thirty years served on the school board of Fairfax County.

The Virginia Division United Daughters of the Confederacy Loan Fund: This organization has established the Kate Mason Roland Loan Fund, worth one hundred fifty dollars (\$150) annually to the holder, and granted to a sophomore, junior, or senior who is lineal descendant of a Confederate soldier. Other funds may be available. Application should be made to the Chairman, Committee on Education, Virginia Division, United Daughters of the Confederacy.

Home Demonstration Fund: By the efforts of Miss Ella G. Agnew, former State Agent for Home Demonstration Work in Virginia, a loan fund has been made available principally for home economics majors.

The Cleveland Memorial Fund: This fund has been established in memory of Misses Annie V. Cleveland and Elizabeth P. Cleveland, former members of Madison Faculty.

Nell Christine Farrar Scholarship Fund: This fund was established by the Class of 1913 in memory of a classmate, Nell Christine Farrar.

Daughters of the American Revolution Loan Fund: The sum of three hundred dollars (\$300) is now available from the Virginia branch of the D.A.R. Application should be submitted directly to the Virginia branch of the D.A.R.

The Knights Templars Loan Fund: Assistance is rendered worthy students in continuing their education by certain funds made available by the order of the Knights Templars of Virginia. Application should be made to them for a loan.

Frances Sale Loan Fund: This fund was established in memory of Frances Sale, the first home economics department head. It is available to home economics majors. The money was provided by the Frances Sale home economics club.

Other Loan Funds: Loan funds have also been provided by the Augusta County Loan Fund, the Business and Professional Women's Club of Harrisonburg, the Kappa Delta Pi Honor Society of the College, Mr. and Mrs. Eugene L. Bayles, J. C. Johnston Loan Fund and contributions from most of the Senior Classes.

State Education Assistance Authority—Guaranteed Loans

The State Education Assistance Authority is a State agency, organized under an Act of the General Assembly of Virginia in 1960. Its purpose is to help young men and women of Virginia who need to borrow funds in order to obtain a higher education.

The Authority, through participation agreements with Lending Institutions of the State, enables these institutions to make *long term* personal loans to students to help pay their college expenses.

Eligibility

Any person who (1) is a resident of Virginia, and (2) is accepted for enrollment or is a full-time student in good standing at an institution of higher learning in Virginia. There are no restrictions as to courses or classes. Undergraduates, graduates, and students taking professional courses are all eligible. Part-time students are not eligible. Also eligible are residents of Virginia attending certain out-of-state institutions to become veterinarians.

Application Procedure

Any eligible student who wishes to apply for an Authority-insured loan may do so by making application at a participating Lending Institution. The Authority does not make loans. It insures to the extent of 90% loans made by participating Lending Institutions from their own funds. A list of all participating Lending Institutions in Virginia will be supplied by the Authority on request, but it is suggested that the applicant contact a Lending Institution in his home area. All loan applications from any one student must be submitted to the same Lending Institution. The Lending Institution will furnish the applicant the necessary forms.

Recipient

The loan is made to the student after consultation with the student's parent or guardian. A student who is under 21 years of age may apply for an Authority-approved loan. By special law, students 16 or over have full legal capacity to act in their own behalf.

Limitations

The proceeds of a loan may be used only for current educational expenses. The amount of each loan will be a matter for decision between the student and the Lending Institution, but borrowing under the program cannot exceed one thousand dollars (\$1,000), exclusive of interest and charges, for any one academic year or its equivalent or six thousand dollars (\$6,000) for all years. For undergraduate work the limit is four thousand dollars (\$4,000) with the exception that the limit is five thousand dollars (\$5,000) if the course taken by the borrower usually requires five years for completion. A loan application will ordinarily cover a loan for one academic year. For succeeding years the student, if again qualifying, may apply for needed funds.

Interest

Interest accrues at the rate of 7 per centum per annum on unpaid balances of principal. If family income adjusted is less than fifteen thousand dollars (\$15,000) the United States Government will pay on behalf of the borrower all of the interest which accrues prior to the beginning of the repayment period of the loan. The borrower will assume the entire interest obligation of the loan upon graduation. Adjusted family income will be determined in the manner specified on a United States Government form which will be supplied to the loan applicant by the Lending Institution.

The preceding paragraph relates to interest. As compensation for insuring loans to the extent of 90%, the Authority collects a small insurance fee from Lending Institutions at the time each loan is made. These fees are passed on to borrowers. They amount to approximately $\frac{1}{2}$ per centum per annum on unpaid balances for the period of the loan. The fees are due by the borrower at the beginning of the repayment period but may be included in the installment note with interest if the borrower elects such a procedure.

Repayment

Repayments begin on a monthly installment basis nine months after graduation, or after the borrower ceases to be a full-time college student, whichever first occurs. At that time the borrower gives the Lending Institution an installment note in exchange for his outstanding note or notes. The length of the repayment period and the amount of the monthly repayment requirement depend upon the total amount of the indebtedness. If this exceeds two thousand dollars (\$2,000) the period of repayment will not be less than five years.

The borrower may prepay all or any part of the principal of a note at any time without penalty and without liability for interest not then accrued.

Parents' Confidential Statement

All applicants for financial aid from the Madison College (Unfunded) Scholarship, the General Undergraduate Scholarship (G.U.S.), the Educational Opportunity Grant and the National Defense Student Loan, must submit the Parents' Confidential Statement from the College Scholarship service in support of their applications for assistance. The Parents' Confidential Statement booklet may be obtained from the secondary school guidance counselor; the Madison College Director of Admissions; or the College Scholarship Service, Box 176, Princeton, New Jersey, 08540.

The Parents' Confidential Statement should be submitted in advance of the May first deadline for the receipt of financial aid applications.

A Suggestion to Friends of the College

The scholarships and loan funds have been of very great assistance to many worthy students, and it is hoped that other friends of education will continue to provide financial assistance for students of this institution. This should appeal to industries and other business establishments, and to persons of means as a most worthy manner in which to invest money and reap a manifold return in the influence which an educated person may exert on the rising generation.

Any sum, large or small, contributed to the College for this purpose will be faithfully used and greatly appreciated by the administration, the faculty, and the students. The President of the College will be pleased to confer or correspond with persons interested in establishing endowment or other scholarships for aiding worthy students.

GIFTS TO THE COLLEGE

1967 - 1968

CONTRIBUTIONS TO PRIVATE SCHOLARSHIP FUND

Anonymous	\$ 1,750.00
Alexandria Council of P.T.A., Springfield, Va.....	800.00
Allison-Ervin Co. Scholarship Fund, Charlotte, N. C.....	200.00
American Association of University Women, Mt. Lakes, N. J..	650.00
American Legion Auxiliary Department of Maryland, Inc.	
Baltimore 14, Maryland.....	250.00
Arlington County Scholarship Fund for Teachers, Inc.,	
Arlington, Va. 22201.....	350.00
Armstrong Foundation, Inc., Winchester, Va.....	2,000.00
The Belk Foundation, Belk Stores Services, Inc.,	
Charlotte, N. C.	500.00
Brandywine Lioness Club, Brandywine, Md.....	200.00
Cave Spring High School P.T.A., Roanoke, Va.....	250.00
Chesterfield Lions Club, Chester, Va. 23831.....	300.00
Christ Episcopal Church, Smithfield, Va. 23430.....	500.00
Citizen's Scholarship Foundation of Lancaster County,	
Lancaster, Pa.	400.00
Citizen's Scholarship Foundation of Shenandoah County, Inc.,	
Woodstock, Va.	350.00
Clark County Educational Fund, Berryville, Va.....	400.00
County School Board of Loudoun County, Leesburg, Va.....	350.00
Culpeper Chapter of Madison College Alumnae, Culpeper, Va.	100.00
Culpeper High School P.T.A. Scholarship Fund, Culpeper, Va.	300.00
Dan River Mills Foundation, Danville, Va.....	750.00
J. Lewis Gibbs Memorial Scholarship, Staunton, Va.....	200.00
Essex and Sussex Scholarship Fund, Spring Lake Beach, N. J..	250.00
Exchange Club of Hagerstown, Hagerstown, Md.....	400.00
F.T.A.—Great Bridge High School, Chesapeake, Va.....	125.00
F.T.A.—Lee-Davis High School, Mechanicsville, Va. 23111..	100.00
Fairfax Ed. Assoc., Inc., Fairfax, Va.....	600.00
Fluvanna County High School P.T.A. & F.E.A.,	
Carysbrook, Va.	150.00
Food Service Executive Assoc., Inc., Lynchburg, Va.....	125.00
Fort Myer Women's Club, Arlington, Va.....	500.00
Fort Couch Middle School, Upper St. Clair Ed. Assoc.,	
Pittsburgh, Pa. 15228.....	250.00
Frederick County Educational Assoc., Winchester, Va.....	300.00
Georgia-Pacific Foundation, Portland, Oregon.....	187.50
Grand Guardian Council of Va., Richmond, Va.....	500.00
Green Giant Foundation, Minneapolis, Minn.....	400.00
Hampton Federation of Parents and Teacher, Hampton, Va...	350.00
Hampton Junior Woman's Club, Hampton, Va.....	100.00
Hanover Education Association, Ashland, Va.....	100.00
Harrisonburg-Rockingham Chapter of Madison College	
Alumnae Assoc., Harrisonburg, Va.....	370.00

Hillsville Women's Club, Hillsville, Va.....	100.00
Hopewell Medical Auxiliary, Hopewell, Va.....	125.00
James Wood High School N.H.S. Scholarship, Winchester, Va.	200.00
Junior Woman's Club, Lexington, Va.....	100.00
Kings Daughters' Hospital, Staunton, Va.....	1,000.00
Kiwanis Club of Fredericksburg, Fredericksburg, Va.....	300.00
Kiwanis Club of Harrisonburg, Harrisonburg, Va.....	965.50
Kiwanis Club of Winchester, Winchester, Va.....	500.00
Lexington Business & Professional Women's Club, Lexington, Va.	100.00
Loyal Order of Moose, Hopewell, Va.....	300.00
Luray Caverns Corp, Luray, Va.....	500.00
Madison College Alumni Assoc., Baltimore Chapter, Baltimore, Md.	100.00
Madison College Alumni Junior Group, Richmond, Chap., Glen Allen, Va.....	100.00
Marriott Foundation Scholarship, Hume, Va.....	1,100.00
Martinsville-Henry County Nurses Training Scholarship, Martinsville, Va.	150.00
Marumscs Citizens Council, Inc., Woodbridge, Va.....	300.00
Minnechaug Regional High School, Wilbraham, Mass.....	200.00
National 4-H Service Comm., Inc., Chicago, Ill.....	500.00
National Foundation—March of Dimes, Arlington County, Washington, D. C.....	250.00
National Foundation—March of Dimes, Roanoke County Chapter, Roanoke, Va.	250.00
Navy Relief Society Ed. Fund., Washington, D.C.....	1,100.00
National Merit Scholarship Corp., Evanston, Ill.....	350.00
Newport News Federation of P.T.A.'s, Newport News, Va....	744.50
The Norfolk Foundation, Norfolk, Va.....	1,100.00
Northfield American Legion Scholarship Fund, Northfield, N. J.....	200.00
Norwich Free Academy, Norwich, Conn.....	100.00
Osborn Senior High School, Manassas, Va. —P.T.A.	100.00
—Pauline Smith—Student Co-op Association.....	100.00
—F.T.A.	100.00
—E. H. Marsteller Scholarship.....	100.00
Frank E. Page Scholarship Comm., Montgomery County, Roanoke, Va.	1,500.00
Pamplin Foundation, Portland, Oregon.....	150.00
P.T.A. Bellwood School, Richmond, Va.....	50.00
P.T.A. Hughesville Elem. School, Hughesville, Md.....	150.00
P.T.A. James Wood High School, Winchester, Va.....	600.00
Patapsco Senior High School, Baltimore, Md.....	100.00
Peabody Trust Fund of Loudoun Co. School Board, Leesburg, Va.	350.00
Peninsula Chapter, Madison College Alumni Association, Newport News, Va.....	150.00
Perry Hall Senior High School, Baltimore, Md.....	100.00
Benjamin T. Pitts Theatres, Fredericksburg, Va.....	375.00

Portsmouth Business & Professional Women's Club, Portsmouth, Va.	300.00
Prince George's County Scholarship Fund., Inc., Hyattsville, Md.	150.00
Princess Ann High School Inter-Club Council, Virginia Beach, Va.	270.00
Reid Stores, Inc., Staunton, Va.	800.00
Richmond Food Stores, Richfood Educational Trust Fund, Richmond, Va.	500.00
Riverdan Benevolent Fund, Danville, Va.	1,009.70
Roanoke District P.T.A. Assoc., Salem, Va.	300.00
Robert Gordon Ellis Memorial Fund, Warrenton, Va.	300.00
Rotary Club of Cheshire, Cheshire, Conn.	250.00
Seaford Lions Club, Seaford, Delaware.	250.00
Oscar Frommell Smith High School, Chesapeake, Va.	200.00
Thunderbird Scholarship Foundation School Community Organization, Mahwah, N. J.	100.00
Tuberculosis—Health Assn. of Northern Virginia, Front Royal, Va.	200.00
Va. Association of Mental Health, Holston Chapter, Marion, Va.	250.00
Va. Concrete Foundation, Inc., Springfield, Va.	750.00
Va. Congress of Parents & Teachers Assoc., Richmond, Va. ...	900.00
Va. Daughters of American Revolution, Richmond, Va.	600.00
Va. Federation of Women's Clubs, Richmond, Va.	308.50
Va. Home Economics Teachers Assoc., Martha Creighton Scholarship, Alexandria, Va.	100.00
Veterans of Foreign Wars of U.S., Dept. of N.J., Trenton, N. J. ...	1,000.00
Washington and Lee High School, Montross, Va.	300.00
Washington and Lee High School P.T.A., Oak Grove, Va.	700.00
Washington and Lee University, Lexington, Va.	555.00
Waverly Inn Scholarship, Cheshire, Conn.	100.00
Wilson Memorial High School S.C.A. and National Honor Society, Fishersville, Va.	200.00
Winchester Business & Professional Women's Club, Stephens City, Va.	150.00
Women of Woodcraft, Hopewell, Va.	100.00
Woman's Club of Elkton, Elkton, Va.	100.00
Woodrow Wilson High School, Graduating Class of February '67, Portsmouth, Va.	50.00
Cross Keys—Mill Creek Ruritan Club, Penn Laird, Va.	300.00
United Daughters of Confederacy, Mary B. Poppenheim Memorial Gift Scholarship, Shelby, N. C.	200.00
Miss Virginia Scholarship Foundation, Miss Virginia Pageant Inc., Roanoke, Va.	250.00
Louisa County Educational Assoc., Louisa, Va.	300.00
Louisa County High School S.C.A.—F.T.A., Louisa, Va.	150.00
K. S. Club, Louisa, Va.	100.00
National Foundation—March of Dimes, Williamsburg Chapter, Williamsburg, Va.	150.00
Total Private Scholarships.	\$ 42,310.70

UNRESTRICTED GIFTS

Burlington Industries Foundation, Greensboro, N. C.....	370.00
National Merit Scholarship Corp., Evanston, Ill.....	100.00
	<hr/>
Total Unrestricted Gifts.....	\$ 470.00

RESTRICTED GIFTS

Contribution to Endowment Fund:	
Mr. & Mrs. H. K. Gibbons, E.S.T., Harrisonburg, Va.....	1,650.00
C. G. Price and Sons.....	100.00
	<hr/>
Total Restricted Gifts.....	\$ 1,750.00
 TOTAL GIFTS TO THE COLLEGE.....	 \$ 44,530.70

GEOGRAPHICAL DISTRIBUTION OF UNDERGRADUATE STUDENTS BY STATES AND COUNTRIES

1967-1968

Alabama	2	New York	32
Arizona	2	North Carolina	13
California	3	Ohio	8
Colorado	2	Oregon	1
Connecticut	16	Pennsylvania	65
Delaware	34	Rhode Island	1
District of Columbia.....	9	South Carolina	6
Florida	7	Tennessee	1
Georgia	2	Virginia	2,736
Hawaii	2	West Virginia	22
Illinois	3		
Indiana	2		
Iowa	1		
Kentucky	2		
Maryland	125		
Massachusetts	6		
Michigan	1		
Mississippi	1		
Missouri	1		
New Jersey	135		

COUNTRIES:

Argentina	1
Canada	2
Columbia	1
France	1
<hr/>	
Total Enrollment 1967-1968.	3,246
Out-of-state students	510
Virginia Students	2,736

GEOGRAPHICAL DISTRIBUTION OF UNDERGRADUATE VIRGINIA STUDENTS BY CITIES AND COUNTIES

1967-1968

Accomack	13	Caroline	3
Albemarle	13	Carroll	1
Charlottesville	31	Charles City	1
Alleghany	6	Chesterfield	55
Clifton Forge	7	Colonial Heights	5
Covington	9	Clarke	12
Amelia	5	Craig	1
Amherst	9	Culpeper	12
Appomattox	11	Cumberland	1
Arlington	108	Dickenson	2
Augusta	85	Dinwiddie	8
Staunton	78	Petersburg	10
Waynesboro	43	Elizabeth City	1
Bath	3	Essex	2
Bedford	8	Fairfax	199
Botetourt	9	Falls Church	82
Buckingham	2	Fauquier	19
Campbell	15	Floyd	4
Lynchburg	39	Fluvanna	3

Franklin	10	Patrick	1
Frederick	31	Pittsylvania	14
Winchester	37	Danville	13
Giles	8	Prince Edward	5
Gloucester	1	Prince George	5
Goochland	4	Hopewell	8
Grayson	3	Prince William	36
Greene	6	Pulaski	3
Greensville	3	Rappahannock	4
Halifax	10	Richmond	2
Hanover	12	Roanoke	21
Henrico	14	Roanoke	66
Richmond	131	Rockbridge	37
Henry	9	Rockingham	322
Martinsville	6	Harrisonburg	219
Highland	6	Scott	1
Isle of Wight	6	Shenandoah	74
James City	11	Smyth	7
King and Queen	2	Southampton	7
King George	5	Spotsylvania	5
King William	2	Fredericksburg	13
Lancaster	1	Stafford	6
Lee	3	Surry	3
Loudoun	29	Sussex	2
Louisa	2	Tazewell	8
Lunenburg	2	Warren	25
Madison	7	Washington	9
Mathews	3	Westmoreland	11
Mecklenburg	5	Wise	5
Middlesex	4	Wythe	4
Montgomery	4	York	11
Radford	2	Williamsburg	5
Nansemond	7	Alexandria	161
Suffolk	6	Chesapeake	22
Nelson	13	Hampton	29
New Kent	3	Newport News	39
Northampton	3	Norfolk	53
Northumberland	2	Portsmouth	36
Nottoway	2	Virginia Beach	53
Orange	7		
Page	54		<hr/> 2,736

SUMMARY OF ENROLLMENT OF STUDENTS

The School Year 1967-1968

Summer Term 1968..... 1,707
 First Semester 1967-1968... 3,020
 Second Semester 1967-1968. 226

4,953

Pupils in Student Teaching
 Classes21,700

Geographical Distribution 289

Index

	<i>Page</i>
Absence from Classes	43-44
Academic Probation	68
Accelerated Program	72
Accreditation	2
Activities, Co-curricular	47-49
Activities Fee	268
Administration, Officers of	10-11
Administrative Council	27
Admission Application	56-57
Admission Policies and Procedures	55-60
Advanced Placement Examinations	57-58
Advanced Standing	58
Alpha Beta Alpha	46
Alumni Association	39
Anthony-Seeger Campus School	36
Art	79-86
Athletic Association, Women's	47
Athletic Association, Men's	47
Attendance	43-44
Auditor's Fee	269
 Band	 47, 119, 122
Basic Studies	62-64
Biology	138-144
Board Fee	268, 272
Body Mechanics Clinic	52
Books and Supplies	270
Breeze	48, 268
Buildings	36-39
Bureau of Teaching Materials	35
Business Administration	214-215, 222-227
Business Education	180-188
 Calendar, Academic	 4-5
Camp, College	46
Campus Banking Facility	272
Campus Life	45-52
Certificates, Teachers'	61-62, 72
Certified Absences	43-44
Chemistry	145-150
Child Guidance Center	52
Chorus	122
Churches in Harrisonburg	50
Church-related Organizations	50
Classification of Students, Undergraduates	66
Co-curricular Activities	47-49
College Board Examinations	57
College Chorale, Madison	47, 122
Collegiate Professional Certificate	61-62, 72

	<i>Page</i>
Concert Choir	47, 123
Course Load	65
Course Numbering System	75
Course Offerings	79-266
Course or Schedule Adjustment, Fee for	65, 270
Courses, Selection of	64-65
Dean's List	68
Degree With Distinction	68
Degree in Three Plan	72
Degrees	61-62
Dietetics	197, 201
Dining Hall	36
Diploma Fee	270
Directed Teaching	71, 256
Division of the Humanities	76-128
Division of the Natural Sciences	129-177
Division of the Social Sciences	178-242
Division of Teacher Education	243-266
Divisional Organization	35
Dormitories	36-37
Dramatics	48
Early Childhood Education	245, 247-248
Early Decision Plan	56
Economics	213, 217, 228-230
Education	245-260
Elementary Education	245-246
Employment, Student	279-280
English	87-96
Enrollment Statistics	289
Exemption Examinations	57, 58
Faculty, College	12-26
Faculty Committees	27-30
Fees and Expenses	268-272
Financial Assistance to Students	273-283
FM Radio Station	48
Foreign Languages	97-110
Fraternities	47
French	97-99, 103-104
Gamma Kappa Chapter of Kappa Pi	48
Geographical Distribution of Students	288-289
Geography	230-232
Geology	151-154
German	100, 105-106
Gifts to the College	284-287
Government, Student	40
Grading System	66
Graduate Program	73
Graduates, Placement of	72
Graduation Requirements	69
Guest Fee	272
Guidance, Student	45

	<i>Page</i>
Health	171-172
Health and Physical Education	162-172
Health Service Staff	10
Hearing Clinic	51
History	189-196
Home Economics	197-208
Home Economics Education	199
Honor Society, Percy H. Warren	49
Honor System	42
Hospital, Rockingham Memorial	39
Hostesses, Dormitory	11
 Infirmary	 38, 44, 268
Judiciary Committee	29
Kappa Delta Pi	48
 Late Registration Fee	 270
Latin	101, 106-107
Laundry Fee	268, 272
Liberal Arts Education	61
Library	36
Library Science	209-212
Library Services	11
Literary Activities	48
Loan Fund Contributions	284-287
Loan Funds	280-283
Lyceum Series	51
 Madison Representatives, University Center	 30
Management	215, 222-223
Marketing	215, 224-225
Mathematics	155-161
Medical Examinations	44, 59
Medical Service	38, 44
Medical Technology	131-132
Men Students	34, 36, 47
Men's Student Organizations	40, 47, 50
Music	111-123
Music Education	112-114
Music Fees	269-270
Musical Organizations	47, 122-123
 Officers of Administration	 10-11
Orchestra	47, 123
Organization of Madison College	35-36
Orientation, Freshmen	50-51
Out-of-State Student Fees	268, 269
 Parents' Association	 39
Part-time Student	60, 269
Payment of Fees and Expenses	270

	<i>Page</i>
Phi Omega Tau	49
Philosophy	96
Physical Education	162-172
Physical Examination	45, 59
Physical Science	137
Physics	173-177
Pi Omega Pi	49
Placement of Graduates	72-73
Political Science	213, 218
Pre-Dental	134
Pre-Law	216
Pre-Medical	132-133
Pre-Nursing	134
Psychology	261-266
Publications, Student	48, 268
Quality Credit Average	67
Quality Rating System	67
Reading Center	51
Readmission	59
Recreation Rooms	46
Re-examination Fee	270
Refunds	271-272
Regulations, College	40-42
Religious Life	49-50
Residence Halls	36
Room and Board Fees	268, 270, 271, 272
Room Deposit Fee	56
Russian	107-108
Scholarships, General	277-279
Scholarship Requirements	67
Scholarships, Student Employment and Loans	273-284
Science, General	135-137
Science, Divisional Courses	137
Screening Program in Teacher Education	70-71
Secondary Education	253
Secondary Teaching	253
Service Fee	269
Service Scholarships	279-280
Sigma Alpha Iota	48
Sigma Eta	49
Sigma Phi Lambda	48
Snack Bar	46
Social Science	213-242
Social Work	214, 221
Sociology	214, 219
Sororities	46
Spanish	102, 108-110
Special Education	245, 249-250
Speech and Debate Activities	48
Special Students	60
Speech and Drama	124-128

	<i>Page</i>
Speech and Hearing Clinic	51
Speech Pathology	245, 251-252
State Scholarship Loan for Prospective Teachers	273-277
Student Debts	271
Student Health	44
Student Teaching	71, 269
Study Abroad	69
Teachers' Scholarships	273-277
Transfer Students, Admission of	58-59
Tuition	268
Vacations	4-5
Visiting Scholars	51
Visitors of Madison College	9
Withdrawal from College	42, 66, 271-272
Women's Student Government Association	40
Y.M.C.A.	50
Y.W.C.A.	50
Yearbook (Bluestone)	48, 268

MADISON COLLEGE

Preliminary Application for Admission

Date _____ 19____

Name _____
Last First Middle

Permanent Address _____
Street and Number

City, Town or Post Office State Zip Code

County _____ Date of Birth _____ Sex _____

Telephone No.: _____ Social Security No.: _____

Temporary Mailing Address: _____

Parent or Guardian _____
Address (if different from yours) _____

When do you plan to enroll? Sept. _____ 19____; Feb. _____ 19____

I am applying for admission as (Please check one):

Freshman _____ Transfer _____ Re-Entry _____

Special Student _____ Evening _____

(OVER)

DIRECTIONS TO APPLICANTS

This form must be completed by *all* applicants, (both BOARDING and DAY) and mailed to the DIRECTOR OF ADMISSIONS, Madison College, Harrisonburg, Va. 22801, along with a \$10.00 application fee. This fee is non-refundable, not transferable to another session and not credited to the student's college account. Please make check or money order payable to MADISON COLLEGE and DO NOT SEND CASH.

FOR TRANSFER STUDENTS: Request the Registrar of each college you have attended beyond high school to forward credits to the DIRECTOR OF ADMISSIONS, Madison College, as soon as you decide to apply for entrance here. If you have not completed one year of college work, a high school transcript and SAT scores are also required.

Upon the filing of this form and the \$10.00 fee the applicant must then further complete his application by submitting the following additional credentials:

- The regular application form (green in color) including a transcript of high school and/or college records.
- A report of the COLLEGE BOARD TEST SCORES (required only of freshmen applicants).
- A recent photograph attached to the GREEN application.

ALL APPLICATIONS MUST BE PROPERLY SIGNED.

MAIL THIS APPLICATION FORM TO:

**DIRECTOR OF ADMISSIONS
MADISON COLLEGE
HARRISONBURG, VIRGINIA 22801**

Do you plan to live in a college dormitory, or commute from home as a day student? Dormitory _____ Day _____

If you have a preference as to roommate, or dormitory, please give their names _____

Name of accredited public high or private secondary school(s) you have attended: _____

Address _____ Date of graduation _____

Code number of high school assigned by College Board _____

What institutions of higher education have you attended beyond high school graduation? _____

Have you previously applied to Madison? _____

If so, when? _____

What probably will be your major? _____

Do you have a regular application form (green in color)? _____

SIGNATURE _____

WHEN YOU WANT INFORMATION
WRITE TO . . .

THE PRESIDENT

General matters pertaining to the College

THE DEAN OF THE COLLEGE

Academic requirements, curricula, and courses
Graduate Bulletin

THE ASSISTANT DEAN OF THE COLLEGE

Summer Session Catalogue

THE DIRECTOR OF ADMISSIONS AND STUDENT AID

Admission of freshmen and advanced students
Expenses, loan funds, and scholarships
Regular Session Catalogue

THE DEAN OF STUDENT SERVICES

Student Personnel Matters

THE DIRECTOR OF HOUSING

Student housing assignments

THE DIRECTOR OF FIELD SERVICES AND PLACEMENT

Placement of Graduates

THE BUSINESS MANAGER

Business matters, other than student expenses

THE REGISTRAR

Evaluation of credits

THE ALUMNI SECRETARY

Alumni Affairs

* * * *

The College can be reached by telephone at all times,
Harrisonburg 434-6756

Telegrams should be addressed to: Madison College,
Harrisonburg, Virginia.

EDGE INDEX

Bend edges of book down. Open to
black line opposite proper designation.

DIVISION OF THE HUMANITIES p. 77

Departments: Art, English, Foreign Languages,
Music, Speech and Drama

DIVISION OF THE NATURAL SCIENCES p. 129

Departments: Biology, Chemistry, Geology, Mathe-
matics, Physical and Health Education, Physics

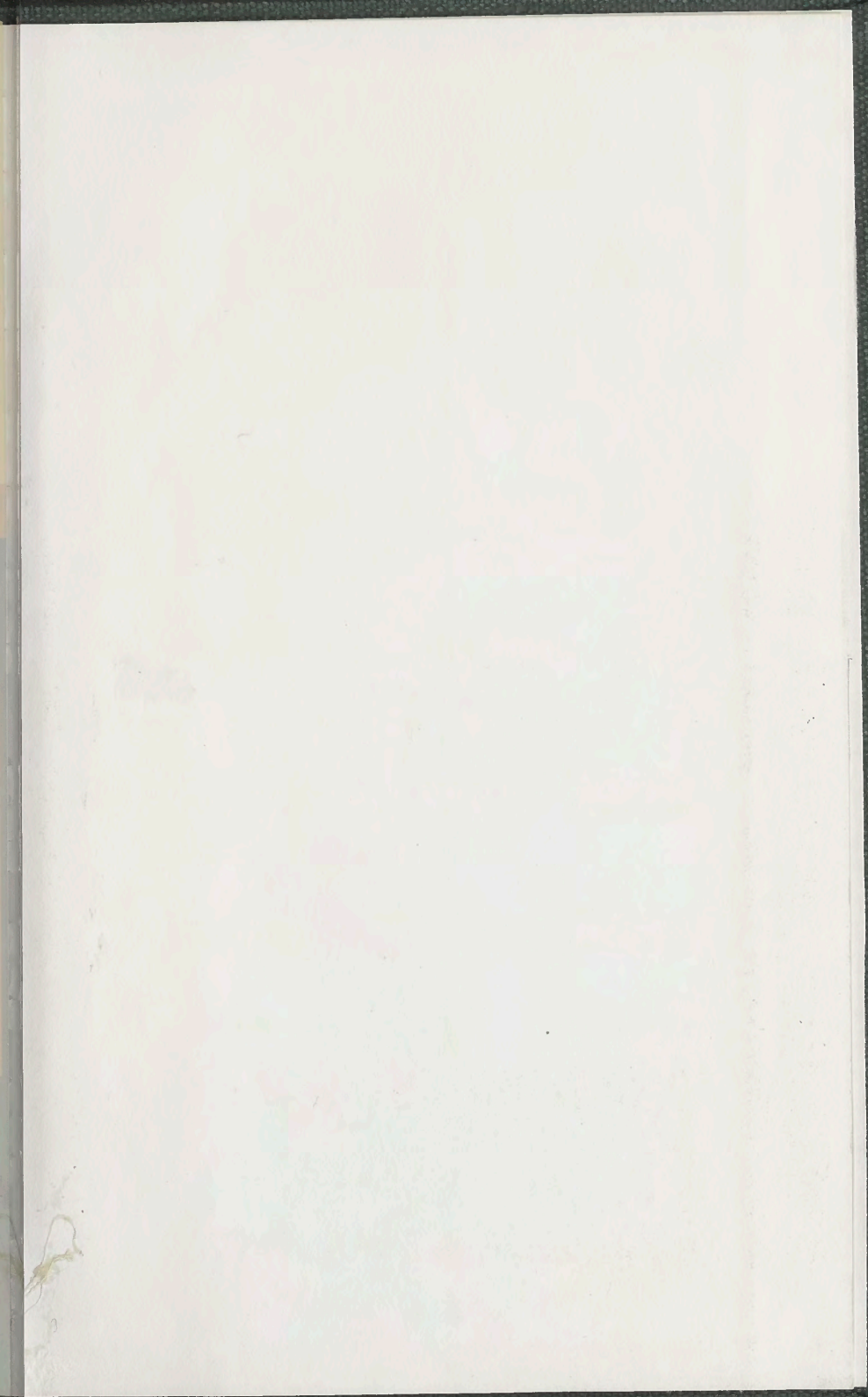
DIVISION OF SOCIAL SCIENCES p. 178

Departments: Business Education, History, Home
Economics, Library Science, Social Science

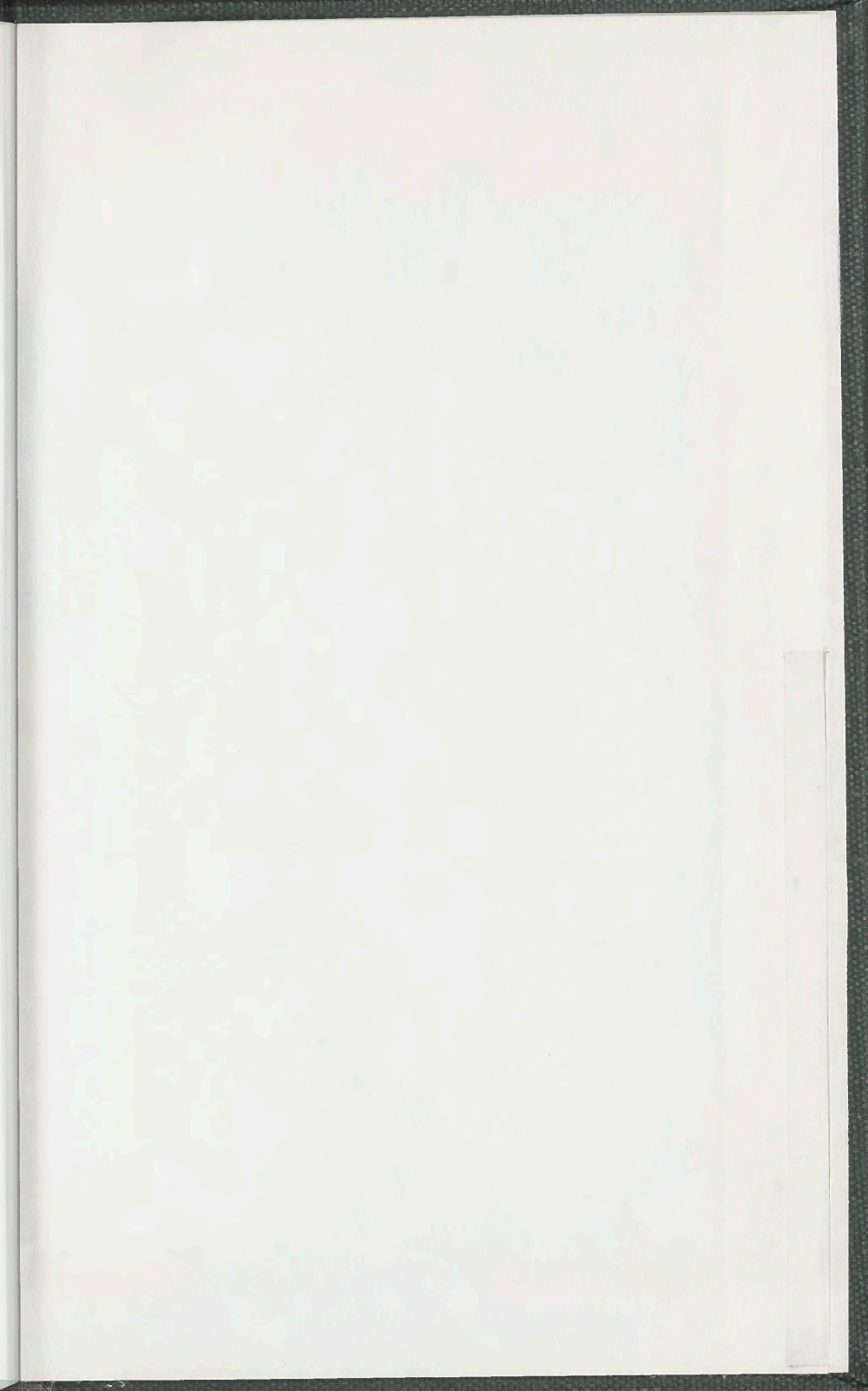
DIVISION OF TEACHER EDUCATION p. 243

Departments: Education, Psychology

PLEASE BRING THIS BULLETIN
WHEN YOU REGISTER

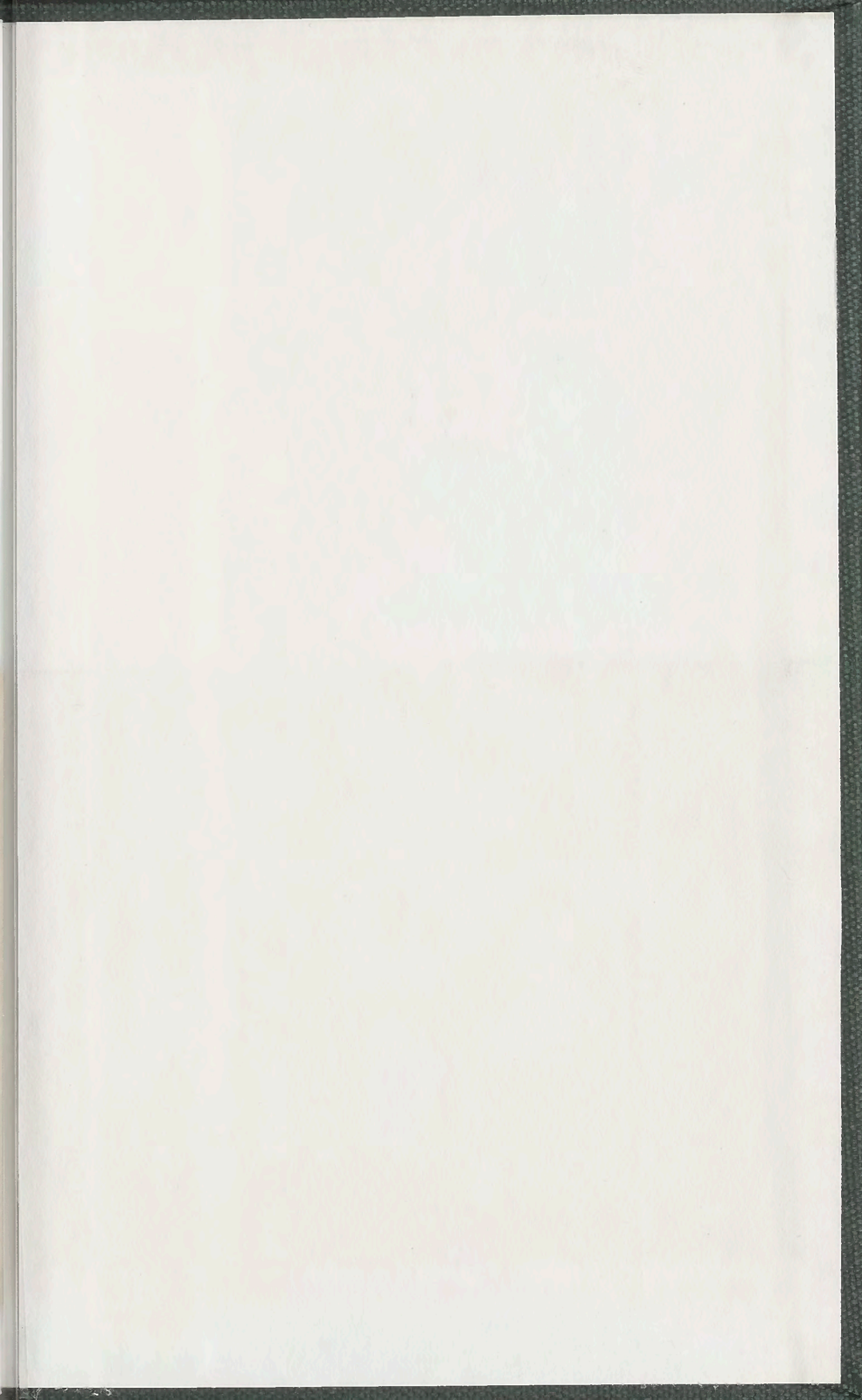


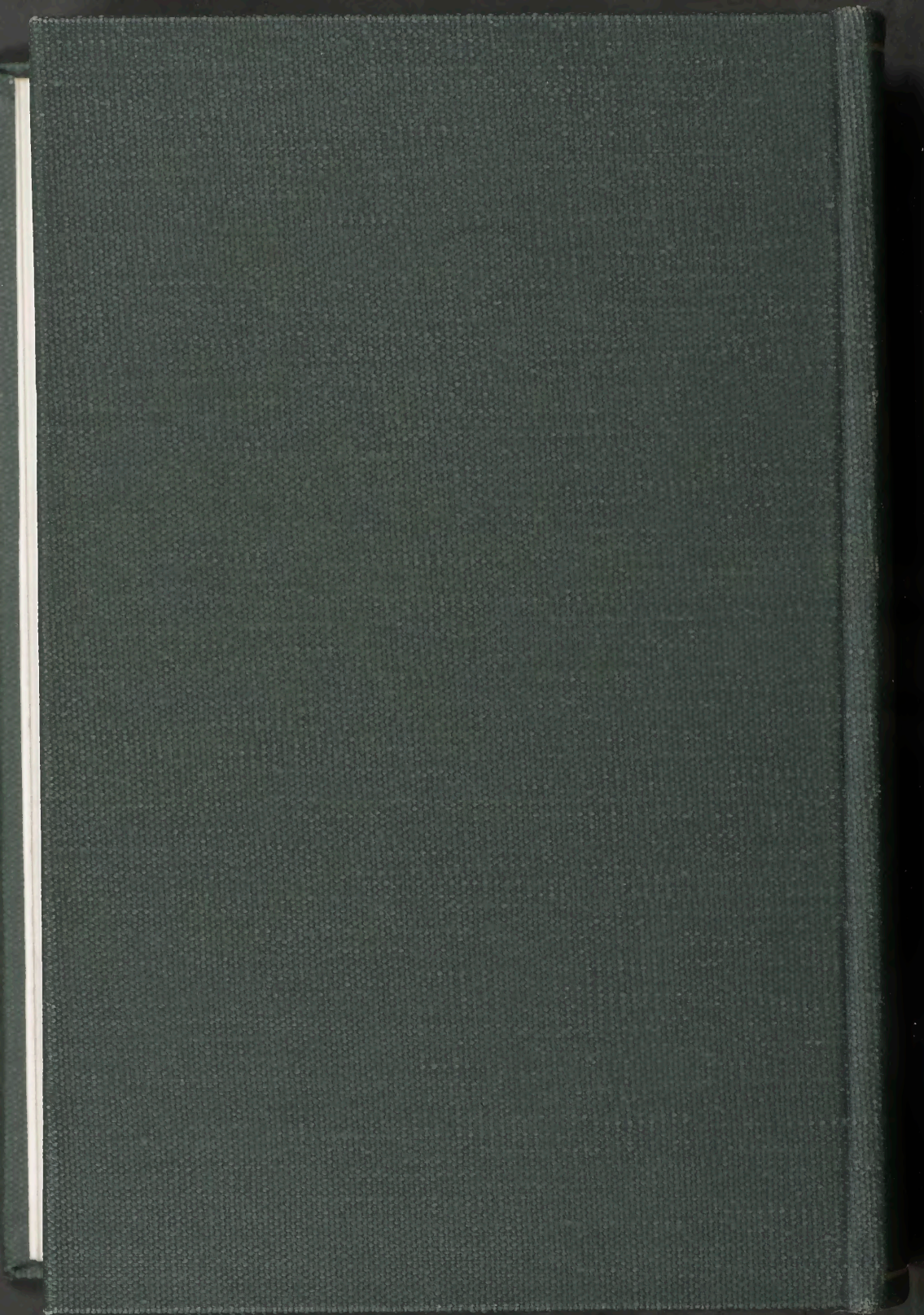




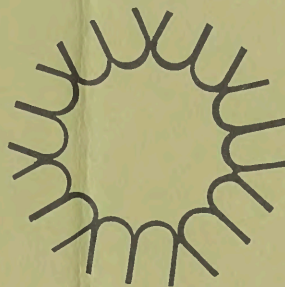
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COLLEGE
SUMMER 1969

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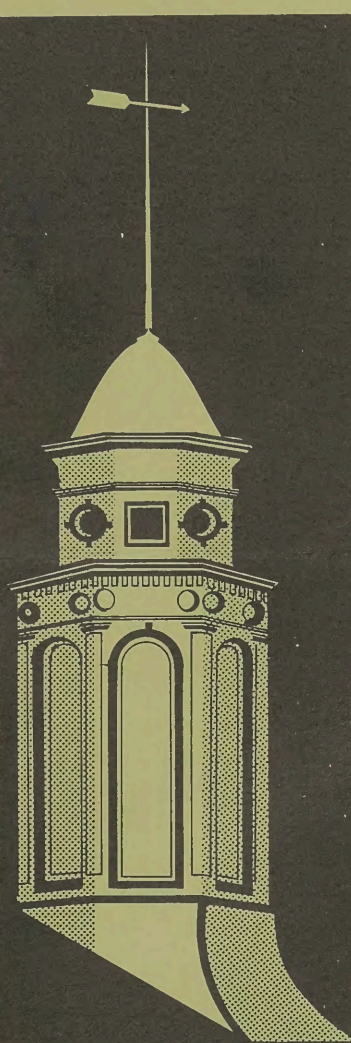




MADISON COLLEGE SUMMER 1969



PRELIMINARY ANNOUNCEMENT



SUMMER STUDY

One summer at Madison College in Harrisonburg, Virginia, and you will see why Madison College is a favorite among summer session students and families. The unique advantage of study with relaxation and vacations is maintained with a complete academic and extracurricular program on campus. Community activities, the historic Shenandoah Valley and the proximity of the Blue Ridge and Allegheny Mountains provide off-campus recreation and points of interest.

SUMMER CALENDAR 1969

Summer Session 1969 will be a single session of eight weeks with two four-week terms. Some courses will run throughout the eight-week session, others will be completed in a four-week term. Dates for the eight-week session are June 18 — August 11 with the first term June 18 — July 15 and second term July 16 — August 11. A graduate or undergraduate student may earn nine semester hours credit in eight weeks. The normal load for a four week term is three semester hours credit.

A limited number of courses do not follow the above calendar and run for two or three weeks. Dates for these courses are on the course schedule. Also consult the special course listing.

SPECIAL PROGRAMS AND WORKSHOPS

(If you desire additional information on any of the following programs, check the return form located on the last page of this announcement.)

Art 501, Workshops in Art (June 16–27, 1–2 semester hours credit).

Concentrated workshops including such areas as painting, sculpture, printmaking, ceramics, photography, crafts, and art education offered for one semester hour credit in conjunction with the State of Virginia Education Department Annual Art Institute. Designed to update and strengthen art skills of practicing teachers.

Business Education 510A, Workshop in New Curriculum Patterns, 1 semester hour credit).

A workshop in preparing new curriculum patterns for office occupations education block-time programs. (July 7 – 11).

Business Education 510B, Workshop in Office Practice, (August 4–8, 1 semester hour credit).

A workshop in the teaching of business computing and secretarial machines.

Education 501, Seminar in Educational Television, (June 18–August 11, 3 semester hours credit).

Workshop type experience will explore the role of television and the implications of this medium for education.

English 572, Contemporary Approaches to English Linguistics, (June 18–July 15, 3 semester hours credit).

Designed for teachers who desire to familiarize themselves with the basic ideas and procedures in the various approaches to the "New English."

Foreign Language 550, Seminar on Teaching of Foreign Languages, (June 18–July 15, 3 semester hours credit).

Designed to provide teachers with new methods in the teaching of Foreign Languages.

Home Economics 590A, Workshop in Occupational Training, (July 14–18, 1 semester hour credit).

Home Economics 590B, Seminar for Consulting Dietitians, (July 21–25, 1 semester hour credit).

Home Economics 590C, Seminar in Applied Nutrition, (August 4–8, 1 semester hour credit).

Music, Virginia Music Camp at Massanutta Springs, (June 16–22, 1 semester hour credit for teachers).

A camp for high school students and a workshop for teachers. The program includes a Festival Chorus, a Junior Chorus, and an Orchestra. In addition, there are daily sessions in music for the elementary school.

Music, Study Abroad Program, (June 23–August 5)

Credit may be earned in Music 200, 300, 561 or 562 depending on needs and background of course applicants. A tour of European art and music centers conducted by Helen Ininger of the music faculty will include England, Germany, Austria, Italy and France.

Physical Education 540, (Workshop) Physical Education in Elementary Schools, (June 18–July 3, 3 semester hours credit).

A workshop designed for physical education and classroom teachers and supervisors concerned with planning, conducting and supervising the physical education program in the elementary schools with special emphasis given to the new concept of "movement education" in physical education.

Science 512, Natural Resources Conservation, (June 18–July 9, 3 semester hours credit).

Speech, Shenandoah Forensic Institute, (July 28–August 8, no credit).

A program for outstanding high school speech and drama students including individual training by college faculty in all phases of speech.

Speech 505, Seminar in Theatre Production, (June 18–August 11, 3–9 semester hours credit).

A seminar designed to give students the opportunity to participate in summer theatre. Acting, directing, and technical theatre will be taught in regular classes and will be learned through actual production.

COURSE NUMBERING

100 - 199	Freshman level
200 - 299	Sophomore level
300 - 399	Junior level
400 - 499	Senior level
500 - 599	Graduate and approved upperclass undergraduate students.
600 and above	graduate students only.

CLASS PERIODS

CLASS PERIODS	MEETING TIME
1st	7:15 - 8:15
2nd	8:25 - 9:25
3rd	9:35 - 10:35
4th	10:45 - 11:45
5th	11:55 - 12:55
6th	1:40 - 2:40
7th	2:50 - 3:50

EXPENSES

Tuition and Fees

Virginia Students	
Undergraduate	\$ 13 per sem. hr.
Graduate	\$ 16 per sem. hr.
Non-Virginia Students	
Undergraduate	\$ 24 per sem. hr.
Graduate	\$ 27 per sem. hr.
Campus Fee	\$ 3
Board, room, laundry	
One week rate	\$ 17.00
Two week rate	\$ 35.00
Four-Week Session	\$ 68.00
Eight-Week Session	\$ 136.00

SCHEDULE SYMBOLS

(1) preceding the course - first four weeks

(2) preceding the course - second four weeks

All other courses run for eight weeks unless specific

dates are indicated.

TBA - Hours to be arranged.

ART

- 122 Metal and Jewelry - Daily 3,4 - DA1 - Beer - 3
- 160 Introductory Painting - Daily 6,7 - DA201 - Coulter - 3
- 200 Art in General Culture - Daily 4 - DA100 - Coulter - 3
- 235 Sculpture - Daily 1,2 - DA4 - Beer - 3
- 255 Photography - Daily 1,2 - DA207, 206 - Wiesener - 3
- 310 Art Activities in the Elem. School - MWF3, 4, TTh 3 - DA103 - Theodore - 3
- 360 Painting - Daily 6,7 - DA201 - Coulter - 3
- 373 Ceramics - Daily 3,4 - DA4 - Diller - 3
- 460 Painting - Daily 6,7 - DA201 - Coulter - 3
- 501 Workshops in Art - Daily (June 16-27) - Staff - 1 - 2
- 526 Advanced Jewelry & Metalwork - Daily 3,4 - DA1 - Beer - 3
- 530 Sculpture - Daily 1,2 - DA4 - Beer - 3
- 560 Drawing and Painting - Daily 6,7 - DA201 - Coulter - 3
- 570 Advanced Ceramic Design - Daily 3,4 - DA4 - Diller - 3
- 630 Sculpture - Daily 1,2 - DA4 - Beer - 3
- 660 Drawing and Painting - Daily 6,7 - DA201 - Coulter - 3
- 670 Ceramics - Daily 3,4 - DA4 - Diller - 3
- 680 Criticism of Art - Daily 2 - DA101 - Diller - 3

BIOLOGY

- 110A General Biology - Daily 1,2 - B215 - Staff - 4
- 110B General Biology - Daily 1,2 - B210 - Staff - 4
- 110C General Biology - Daily 1,2 - B108 - Staff - 4
- 110D General Biology - Daily 3,4 - B215 - Davis - 4
- 120 General Zoology - Daily 1,2 - B113 - Jones - 4
- 130 General Botany - Daily 3,4 - B113 - Staff - 4
- 270 Human Physiology - MTWTh 3,4 - B108 - Staff - 3
- 280 General Bacteriology - Daily 1,2 - B214 - Trelawny - 4
- 290 Human Anatomy - Daily 3,4 - B103 - Grimm - 4
- 290N1 Human Anatomy - Daily 1,2 - B116 - Staff - 4
- 290N2 Human Anatomy - Daily 3,4 - B116 - Staff - 4
- 330 Genetics - TBA - B211 - Jones - 3
- 505 Natural History - Daily 6,7 - B103 - E. Fisher - 3
- 520 Plant Ecology - Daily 6,7 - B113 - Ferry - 3
- 555 Intro. to Plant Physiology - Daily 3,4 - B104 - Ferry - 4
- 640 Medical Entomology - MTWTh 1,2 - B211 - Grimm - 3
- 675 Aquatic Ecology - Daily 6,7 - B210 - E. Fisher - 4

BUSINESS ADMINISTRATION

- 280 Introduction to Management - Daily 2 - HA3, 102 - Kincheloe - 3
- 390 Business Policy - Daily 1 - M9 - Kincheloe - 3
- 487 Marketing - Daily 4 - M9 - Burnett - 3
- 489 Personnel Administration - Daily 3 - M27 - Burnett - 3

BUSINESS EDUCATION

- 241 Elementary Accounting - Daily 2 - HA205 - Sanders - 3
- 377 Federal Income Tax Acc. - Daily 1 - HA205 - Sanders - 3
- 505 Seminar in Business Education - Daily 1 - HA3 - Z. Dickerson - 3

- 510A Workshop in New Curr. Patterns - TBA - Steagall - 1
- 510B Workshop in Office Practice - August 4-8 - TBA - Steagall - 1
- (2) 520 Adv. Studies in Basic Bus. Subjects - Daily 2, 3 - HA3 - Z. Dickerson - 3
- (1) 610 Problems in Bus. Ed. - Daily 4,5 - HA3 - Walsh - 3
- (2) 620 Adv. Studies in Skill Bus. Subjects - Daily 4,5 - HA3 - Steagall - 3
- (1) 640 Seminar in Automated Data Processing - Daily 2,3 - HA2 - Coffman - 3
- 680 Reading & Research - TBA - Staff - 3

CHEMISTRY

- (1) 101A General Chemistry - Daily 1,2,3,4 - B301 - Chappell - 4
- (1) 101B General Chemistry - Daily 1,2,3,4 - B314 - Palocsay - 4
- (2) 102A General Chemistry - Daily 1,2,3,4 - B301 - Chappell - 4
- (2) 102B General Chemistry - Daily 1,2,3,4 - B314 - Palocsay - 4
- (1) 235 Organic Chemistry - Daily 1,2,3,4 - B114 - Simmons - 4
- (2) 236 Organic Chemistry - Daily 1,2,3,4 - B114 - Simmons - 4

ECONOMICS

- 220A Survey of Economics - Daily 5 - M9 - Adkins - 3
- (2) 220B Survey of Economics - Daily 3,4 - M11 - Wilhelm - 3
- 230 Principles of Economics - Daily 6 - M9 - Adkins - 3
- 235 Principles of Economics - Daily 3 - M9 - Mace - 3
- 488 Money and Banking - Daily 1 - M17 - Mace - 3
- (1) 501 Industry in Action - Daily 3,4 - M11 - Wilhelm - 3
- 520 Labor Management - MW 7 - 9:30 p.m. - Kipps - 3
- 600 Contemporary Economics - MW 3:30-6:00 p.m. - Kipps - 3

EDUCATION

- 358 Arith. in the Elem. School - Daily 1 - M23 - Hopkins - 3
- 359 Reading in the Elem. School - Daily 2 - M23 - Blair - 3
- 360A Found. of Curr. - Daily 1 - W40 - Joyce - 3
- 360B Found. of Curr. - Daily 3 - M28 - Landes - 3
- 360C Found. of Curr. - Daily 4 - W28 - Rush - 3
- 369 Meth. & Mat. in Teach. Elem. Grades - Daily 6 - M23 - Kaslow - 3
- 370 Meth. & Mat. in Teach. Sec. Sch. - Daily 1 - M27 - Landes - 3
- 400 Speech Correction - Daily 4 - AS18 - O'Hare - 3
- 410 Char. of Mentally Ret. Child. - Daily 2 - Bk - Knight - 3
- 465 Speech Correction Practice - Daily 2 - AS17 - O'Hare - 3
- 470A Hist. & Phil. of Ed. Thought - Daily 2 - M28 - Joyce - 3
- 470B Hist. & Phil. of Ed. Thought - Daily 4 - M27 - Joyce - 3
- 480 Directed Teaching - TBA - Staff - 3
- 495S Teaching Problems - TBA - R. Poindexter - 3
- 501 Seminar in Ed. Television - TTh 6,7,8 - AS17 - Garlick - 3
- (2) 502 Elem. School Read. Program - Daily 4,5 - M23 - Kaslow - 3
- 506 Teach. Read. Skills Beyond Elem. Grades - Daily 6,7,8 (June 18-July 9) - N - Darrin - 3
- 507 Diag. & Rem. Tech. in Read. - Daily 2 - N - Goff - 3
- 509 Exp. Early Childhood Curr. in Depth - Daily 1 - AS17 - M. Dickerson - 3

- 512 Sec. Sch. Curr. & Co-Curr. - Daily 2 - W21 - Lehman - 3
- 516 Theory & Practice of Guid. - Daily 3 - W21 - J. Fox - 3
- (1) 591 Elem. School Curriculum - Daily 4,5 - M23 - Blair - 3
- 603 Phil. of Ed. - Daily 3 - M23 - Lehman - 3
- 616 Practicum in Early Childhood Ed. - Daily 2 - AS14A - Winn - 3
- 630 Research Meth. in Ed. - Daily 5 - W21 - Mundy - 3
- 640 Fund. of Ed. Admin. - Daily 4 - W21 - R. Poindexter - 3
- 650 Supervision of Instruction - Daily 6,7,8 (July 10 - July 30) - W21 - Rush - 3
- 660 Practicum in Diag. & Remed. Techniques in Reading - Daily 4 - N - Goff - 3
- 690 Practicum in Counseling - TBA - W. Hall - 3

ENGLISH

- 101A Reading and Composition - Daily 1 - W33 - Leigh - 3
- 101B Reading and Composition - Daily 2 - W33 - Farrar - 3
- 101C Reading and Composition - Daily 3 - W33 - Wilkins - 3
- 101D Reading and Composition - Daily 4 - W33 - Farrar - 3
- 101E Reading and Composition - Daily 5 - W33 - Morley-Mower - 3
- 101F Reading and Composition - Daily 1 - W31 - Atkinson - 3
- 101G Reading and Composition - Daily 2 - W31 - Atkinson - 3
- 101H Reading and Composition - Daily 3 - W31 - Rogers - 3
- 101I Reading and Composition - Daily 4 - W31 - Rogers - 3
- 101J Reading and Composition - Daily 5 - W31 - J. Poindexter - 3
- 102A Reading and Composition - Daily 1 - W32 - McMurray - 3
- 102B Reading and Composition - Daily 3 - W32 - Leigh - 3
- 102C Reading and Composition - Daily 5 - W32 - Callahan - 3
- 233A Introduction to Literature - Daily 2 - W32 - Adams - 3
- 233B Introduction to Literature - Daily 4 - W32 - Mahler - 3
- 233C Introduction to Literature - Daily 3 - W25 - Wilkins - 3
- 234A Introduction to Literature - Daily 2 - W37 - Leigh - 3
- 234B Introduction to Literature - Daily 4 - W37 - Morley-Mower - 3
- 235 Survey of English Literature - Daily 1 - W37 - Farrar - 3
- 247 Survey of American Literature - Daily 5 - Mo1 - Wilkins - 3
- 305 Literature of the Old Test. - Daily 2 - W39 - Callahan - 3
- 318 World Literature - Daily 1 - W38 - Cavanaugh - 3
- 420 Modern English Grammar - Daily 2 - W25 - Curtis - 3
- 532 Studies in Am. Realism - Daily 2 - W38 - McMurray - 3
- 560 Non-Dramatic Lit. of the Elizabethan Period - Daily 3 - W37 - Cavanaugh - 3
- (1) 572 Contemporary Approaches to English Linguistics - (June 18-July 15) - TBA - Curtis - 3
- 601 Shakespeare - Daily 4 - W25 - J. Poindexter - 3
- 640 Studies in Cont. Lit. - Daily 5 - W25 - Adams - 3
- 670 Stud. in the Poetry of the Romantic Movement - Daily 1 - W25 - Mahler - 3

FOREIGN LANGUAGE

- (1) 550 Seminar on Teaching of Foreign Languages - Daily 2,3 - Mo20 - Stewart - 3

FRENCH

- (1) 101 Elementary French - Daily 2,3,4 + lab - Mo1 - Perlman - 4
- (2) 102 Elementary French - Daily 2,3,4 + lab - Mo1 - Perlman - 4
- (1) 231 Intermediate French - Daily 1,2 - B201 - Rauch - 3
- (2) 232 Intermediate French - Daily 1,2 - B201 - Rauch - 3
- (1) 250 Conversation and Adv. Comp. - Daily 4,5 - Mo20 - Rauch - 3

GEOGRAPHY

- 120A Introduction to Geography - Daily 2 - K14 - A. Hall - 3
- 120B Introduction to Geography - Daily 4 - K14 - A. Hall - 3

GEOLOGY

- 110A Physical Geology - MTWTh2,3F2 - B208 - Harnsberger - 4

SUMMER 1969

FOUR-WEEK SESSIONS June 18-July 15 July 16-August 11

- 110B Physical Geology — MTWTh4,5 — B208 —
Harnesberger — 4
(1) 335 Paleontology — MWF2, 3, 4TTh2, 3 — B206
— Farmer — 3
(2) 336 Paleontology — MWF2, 3, 4TTh2, 3 — B206
— Farmer — 3

GERMAN

- (1) 231 Intermediate German — Daily 5,6 — Mo101 —
Stewart — 3
(2) 232 Intermediate German — Daily 5,6 — Mo101 —
Stewart — 3

HEALTH

- 200 A Personal and Comm. Hlth. — MTWTh 1 — J1
— Crawford — 2
200B Personal and Comm. Hlth. — MTWTh 2 — J1
— Crawford — 2
200C Personal and Comm. Hlth. — MTWTh 3 — J1
— Schell — 2
200D Personal and Comm. Hlth. — MTWTh 4 — J1
— Schell — 2
203 Safety and First Aid — Daily 5 — J1 — Long
— 3
304 Traffic and Driver Safety — Daily 6 — J1 —
Long — 3

HISTORY

- 233A U. S. History to 1865 — Daily 1 — M28 —
Bland — 3
233B U. S. History to 1865 — Daily 2 — DM104 —
Bland — 3
233C U. S. History to 1865 — Daily 3 — Mo101 —
Hallman — 3
233D U. S. History to 1865 — Daily 4 — K14 —
Dingledine — 3
234A U. S. History Since 1865 — Daily 3 — K16 —
Henderson — 3
234B U. S. History Since 1865 — Daily 4 — M28 —
Bland — 3
255 Hist. of Civ. to 1650 — Daily 2 — M17 —
Marshall — 3
256 Hist. of Civ. Since 1650 — Daily 3 — M17 —
Marshall — 3
363 Hist. of Africa — Daily 2 — M15 — McFarland
— 3
383 Early England — Daily 1 — M15 — Wood — 3
477 Medieval History — Daily 5 — M17 — Marshall
— 3
520 U. S. History, 1763-1800 — Daily 5 — K16 —
Hallman — 3
560 Modern France — Daily 4 — M15 — McFarland
— 3
565 Twentieth Century Britain — Daily 3 — M15
— Wood — 3
601 U. S. Dip. Hist., 1800-1890 — Daily 2 — K16
— Dingledine — 3
610 The Era of Franklin D. Roosevelt — Daily 1 —
K16 — Henderson — 3

HOME ECONOMICS

- (1) 270 Management in Relation to Personal & Family
Resources — Daily 1,2 — Mo101 — C. Driver
— 2
290 Textiles — Daily 3 — Mo109 — Linehan — 3
(2) 320 Consumer Economics — Daily 1,2 — Mo101
— C. Driver — 3
470 Home Management Residence — Daily 10:45
-1:10 — V.H. — Linehan — 3
590A Workshop in Occupational Training — July
14-18 — Mo102,219 — Staff — 1
590B Seminar for Consulting Dietitians — July 21-
25 — Mo205 — Staff — 1
590C Seminar in Applied Nutrition — August 4-8
— Mo205 — Staff — 1
(1) 610 New Develop. in Foods — Daily 3,4 — Mo205
— Rowe — 3

LIBRARY SCIENCE

- 240A Children's Literature — Daily 2 — L12 — Mason
— 3
240B Children's Literature — Daily 3 — L10 — Finlay
— 3
354 Young People's Literature — Daily 2 — L10 —
Riddle — 3
365 Organization of Materials — Daily 4 — L10 —
Finlay — 3
366 Administration of School Lib. — Daily 5 —
L10 — Riddle — 3
370A Audio-Visual Materials — Daily 3+lab — L3
— Mason — 3
370B Audio-Visual Materials — Daily 5+lab — L3
— Mason — 3
477 Reference and Bibliography — Daily 1 — L10
— Finlay — 3
478 Cataloging — Daily 4+lab — L12 — Riddle —
3
490 Problems in School Librarianship — TBA —
L27 — Palmer — 3

MATHEMATICS

- 107A Fundamentals of Mathematics — Daily 2 —
B119 — G. Fisher — 3
107B Fundamentals of Mathematics — Daily 2 —
B320 — Staff — 3
107C Fundamentals of Mathematics — Daily 4 —
B8 — Staff — 3
107D Fundamentals of Mathematics — Daily 4 —
B318 — Mullenex — 3

- 107E Fundamentals of Mathematics — Daily 5 —
B8 — Mullenex — 3
107F Fundamentals of Mathematics — Daily 1 —
B320 — Staff — 3
107G Fundamentals of Mathematics — Daily 3 —
B320 — Staff — 3
107H Fundamentals of Mathematics — Daily 5 —
B117 — Staff — 3
108A Fundamentals of Mathematics — Daily 1 —
B119 — Ziegenfus — 3
108B Fundamentals of Mathematics — Daily 3 —
B117 — Hanson — 3
125A Introduction to College Math. — Daily 1 —
B111 — Staff — 3
125B Introduction to College Math. — Daily 3 —
B8 — Staff — 3
126 Introduction to College Math. — Daily 2 —
B111 — Staff — 3
207 Basic Concepts of Algebra — MTWTh4 (1) —
MWF4 (2) — B111 — Staff — 2
208 Intuitive Found. of Geometry — MTWTh3(1) —
MWF3(2) — B111 — Staff — 2
210 Digital Computer Programming — MW 2 —
B117 — Staff — 1
220 Elementary Statistics — Daily 2 — B318 —
Mullenex — 3
235 Analytic Geometry and Calculus — Daily 4,5
— B119 — Staff — 5
360 Linear Algebra — Daily 1 — B117 — Staff —
3
385 Intermediate Calculus — Daily 4 — B320 —
Staff — 3
510 Advanced Calculus I — Daily 4 — B117 — G.
Fisher — 3
525 Numerical Analysis — Daily 5 — B111 — Staff
— 3
530 Abstract Algebra — Daily 1 — B8 — Hanson
— 3
550 Theory of Numbers — Daily 3 — B119 —
Ziegenfus — 3
620 Topics in Geometry — Daily 2 — B8 — —
Ikenberry — 3

MUSIC

- 200A Music in General Culture — Daily 1 — DM209
— Marshall — 3
200B Music in General Culture — Daily 2 — DM209
— Marshall — 3
200C Music in General Culture — Daily 3 — DM209
— Staff — 3
200D Music 200, 300, 561, 562 (Study Abroad
Program, June 23 — August 5)
375A Music for Children — Daily 2 — DM103 —
Lance — 3
375B Music for Children — Daily 4 — DM209 —
Lyon — 3
501 Choral Materials and Tech. — Daily 4 —
DM103 — Ohlsson — 3
526 Advanced Conducting — Daily 4 — DM103 —
Ohlsson — 3
541 Modern Harmony and Comp. — Daily 1 —
DM103 — Anderson — 3
563 Twentieth Century Music — Daily 1 — DM103
— Anderson — 3
570 Analytical Studies in Mus. Lit. — Daily 3 —
DM103 — Anderson — 3
613 Mus. Ed. Sem.: Prin. & Prac. in Music Edu-
cation — Daily 2 — DM207 — Lyon — 3
Chorus 109, 209, 309, 409 — MTWTh6-DM209 —
Lyon — 1
Virginia Music Camp — 171, 172, 173, 174, 175, 176 —
(June 16-22) — TBA — Lyon — 1
Instrumental, Priv. Lessons — 115-116, 215-216, 315-316,
415-416, 511, 512, 513, 514 — TBA — DM103 —
Marshall
Organ, Priv. Lessons — 115-116, 215-216, 315-316, 415-
416 — TBA — Staff
Piano, Priv. Lessons — 115-116, 215-216, 315-316, 415-
416, 511, 512, 513, 514 — TBA — Staff
Voice, Priv. Lessons — 115-116, 215-216, 315-316, 415-
416, 511, 512, 513, 514 — TBA — Ohlsson, Lance

PHILOSOPHY

- 240 Introduction to Philosophy — Daily 3 —
W38 — Callahan — 3

PHYSICAL EDUCATION

- 160A Elementary Swimming — Daily 2 — Pool —
Mills — 1
160B Elementary Swimming — Daily 3 — Pool —
Bruce — 1
160C Elementary Swimming — Daily 5 — Pool —
Mills — 1
160D Elementary Swimming — Daily 6 — Pool —
Lipton — 1
225A Tennis, Int. Tennis — MTWTh 1 — KG —
Quinn — 1
225B Tennis, Int. Tennis — MTWTh 2 — KG —
Quinn — 1
225C Tennis, Int. Tennis — MTWTh 3 — KG —
Mills — 1
226A Golf, Int. Golf — MTWTh 2 — FSH —
Rummel — 1
226B Golf, Int. Golf — MTWTh 3 — FSH —
Rummel — 1
226C Golf, Int. Golf — MTWTh 4 — FSH —
Rummel — 1
370 Phys. Education for Children — MTWTh 2
— K6 — Schell — 2
386 Prin. of Health & Phys. Ed. — Daily 6 — K6
— Morrison — 3

- 540 Physical Education in El. Sch. — Daily 3,4,
7,8 (June 18-July 3) — DA200 — Kruger
— 3
630 Problems in Physical Ed. — Daily 4 — K6
— Bruce — 3
(2) 640 Prevention & Care of Ath. Inj. — Daily 2,3
— M12 — Lipton — 3
680 Reading and Research — TBA — K6 —
Crawford — 3

PHYSICAL SCIENCE

- 110 General Physical Science — Daily 4,5 — B11,
14 — Staff — 4

PHYSICS

- 121-122 General Physics — Daily 2,3,4,5 — B12,15 —
Staff — 8
230 Health Physics — Daily 2,3 — B23 — Staff — 4

POLITICAL SCIENCE

- 110A Introduction to Pol. Sci. — Daily 1 — M11 —
Douglas — 3
225 U. S. Government — Daily 4 — M17 — Douglas
— 3

PSYCHOLOGY

- 100N Psychology for Stu. of Nurs. — Daily 1 — W21
— Black — 3
231 General Psychology — Daily 1 — W22 — Haynes
— 3
232 General Psychology — Daily 1 — W28 — Joniak
— 3
233A Human Growth & Development — Daily 2 —
DM110 — J. Driver — 3
233B Human Growth & Development — Daily 2 —
W40 — Black — 3
234A Human Growth & Development — Daily 3 —
W39 — J. Driver — 3
234B Human Growth & Development — Daily 5 —
W28 — H. Moore — 3
240 Survey of Exceptional Children — Daily 3 —
DM110 — Knight — 3
(1) 357 Psychology of Personality — Daily 3,4 — DM
104 — Mundy — 3
(2) 358 Abnormal Psychology — Daily 3,4 — DM104
— H. Moore — 3
369 Psychology of Early Childhood — Daily 5 —
AS17 — M. Dickerson — 3
479 Psychology of Learning — Daily 2 — W28 —
Joniak — 3
485 Psychology of Motivation — Daily 4 — W22 —
Joniak — 3
486 History and Systems of Mod. Psy. — Daily 5
— DM110 — Haynes — 3
488 Mental Tests & Measurements — Daily 3 —
W40 — Haynes — 3
(1) 628 Research in Adol. Psychology — Daily 2,3 —
W22 — Caldwell — 3

SCIENCE

- 310 Science in the Elem. School — Daily 2,3 —
B11 — Wells — 4
512 Natural Resources Conservation (June 18-July
9) — B202 — Mundie — 3
520 Matter and Energy — Daily 5 — B2 — Wells —
3

SOCIOLOGY

- (1) 252 Population Problems — Daily 4,5 — HA205 —
McCready — 2
(2) 254 Social Stratification — Daily 4,5 — HA205 —
McCready — 2
(1) 312 Social Pathology — MTWTh 4,5 — HA102 —
Whitmer — 2
(1) 425 Crime in America — MTWTh 2,3 — HA102 —
Whitmer — 2
(1) 427 Juvenile Delinquency — MTWTh 4,5 — W39
— Whitmer — 2
(1) 530 Negro in America — Daily 3,4 — B201 — E.
Smith — 3

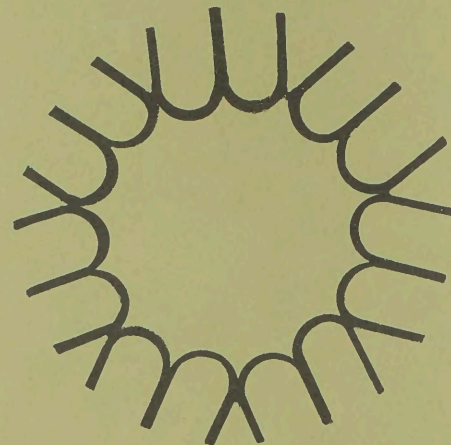
SPANISH

- (1) 231 Intermediate Spanish — Daily 1,2 — HA206
— Conis — 3
(2) 232 Intermediate Spanish — Daily 1,2 — HA206
— Conis — 3
(1) 250 Spanish Conv. and Composition — Daily 4,5
— HA206 — Conis — 3

SPEECH AND DRAMA

- 200A Oral Communication — MTThF3(1)MWF3(2)
— ZA — Moulton — 2
200B Oral Communication — MTThF4(1)MWF4(2)
— ZA — Moulton — 2
200C Oral Communication — MTThF4(1)MWF4(2)
— ZB — H. Patterson — 2
200D Oral Communication — MTThF5(1)MWF5(2)
— ZB — H. Patterson — 2
200E Oral Communication — MTThF1(1)MWF1(2)
— ZA — R. Patterson — 2
200F Oral Communication — MTThF2(1)MWF2(2)
— ZA — R. Patterson — 2
390 Creativity — Daily 1 — ZB — Moulton — 3
490 Directed Studies — TBA — Z — Moulton —
2-4
505 Seminar in Theatre Prod. (June 18-August 11)
— LST — Burr — 3-9
High School Forensic Institute — July 28-August 8 —
— LST — R. Patterson/H. Patterson — 2-4

MADISON COLLEGE
HARRISONBURG, VIRGINIA



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SUMMER 1969

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DETACH AND RETURN

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Special Programs and Workshops

- ☐ Art 501, Workshops in Art
☐ Bus. Ed. 510A, Workshop in New Curr. Patterns
☐ Bus. Ed. 510B, Workshop in Office Practice
☐ Ed. 501, Seminar in Educational Television
☐ Eng. 572, Contemp. Approaches to English Linguistics
☐ For. Lang. 550, Seminar on Teaching of Foreign Languages
☐ H. Ec. 590A, B, or C Workshops
☐ Music, Virginia Music Camp at Massanetta Springs
☐ Music, Study Abroad Program
☐ Phys. Ed. 540, Physical Education in Elementary Schools
☐ Sci. 512, Natural Resources Conservation
☐ Speech, Shenandoah Forensic Institute
☐ Speech 505, Seminar in Theatre Production

Date _____, 19____

Mr.

Miss

Mrs.

Last Name

First Name

Middle Name

Address

Street

Phone No.

City

State

Zip Code

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AND
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